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The American Artisan

THE HARDWARE RECORD

olume 2—No. 27. / CHICAGO, JULY 6, 1901. $2.00 Per Year.

g—to—do—business—
ut—advertising—is—like—
ing—at—a—girl—in—the—
—you—know—what—you—are
—but—nobody—else—does.

BRADLEY SHELF BRACKETS.
Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

ane Bros. Co.,
POUGHKEEPSIE, N. Y.

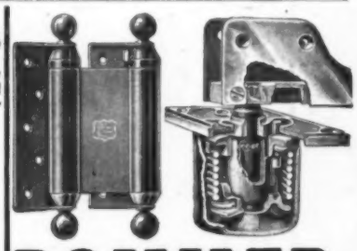
Our Facilities

are unsurpassed by any firm in the United States for the manufacture of

Stove Bolts,
Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wires,
Rivets,
Special Bolts,
Mica Bolts,
Cold Pressed Nuts.

We have a large *clientele* among stove men who appreciate our high quality, prompt deliveries and attractive prices. Let us hear from you.

Atlas Bolt & Screw Co.,
Cleveland, O.



BOMMER SPRING HINGES.
BOMMER BROS. BROOKLYN, N.Y.

FOR AMERICAN SEAL
lastic Oil Roofing Cement
Stove Putty,
Asbestos Furnace Cement,
and paints for inside and outside use on any surface.

/m. Connors Paint Mfg. Co.

WESTERN AGENTS
J. L. PERKINS & CO.,
1 Lake Street, - - - - CHICAGO, ILL.
STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

This Space for Sale
Inquire of Owner
Daniel Stern, 69 Dearborn St.
CHICAGO.

Black Diamond Files and Rasps.
PERFECT—ALWAYS

Twelve Medals Awarded At International Expositions.

G. & H. BARNETT CO.,
Black Diamond File Works. Philadelphia, Pa.

Columbus Bolt Works,
Columbus, O.

Bolts,
Nuts,
Washers,
Turn Buckles,
Bridge and Roof Rods
and Bolts
ALL KINDS OF CARRIAGE FORGINGS. CATALOGUE ON APPLICATION.

THE "GLOBE" VENTILATOR,
In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.

FOR PERFECTLY VENTILATING
Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

SMOKY CHIMNEYS CURED.
"Globe Ventilated Ridging"
Send for Pamphlet.

Manufactured by
GLOBE VENTILATOR CO., TROY, N. Y.

T$200
.A7

BOILERS AND RADIATORS

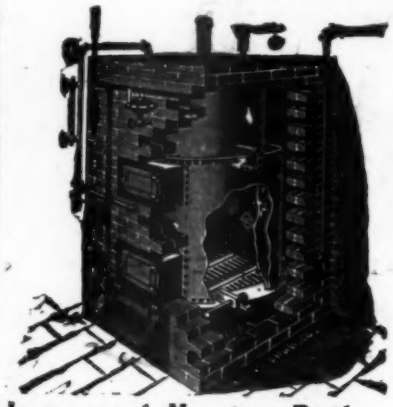
A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.

New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY

Lake and Dearborn Sts., CHICAGO.

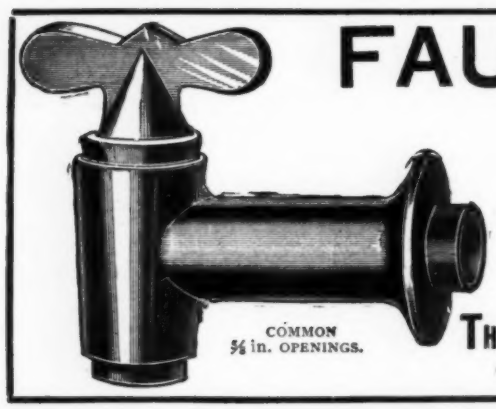


Improved Haxtun Boiler

For Steam and Hot Water Heating. Magazine Feed. For Soft and Hard Coal, 18 years' successful use.

Kewanee Boiler Company, Kewanee, Ill.

Chicago Store 167-169 East Lake St., Chicago.



COMMON
5/8 in. OPENINGS.

FAUCETS.

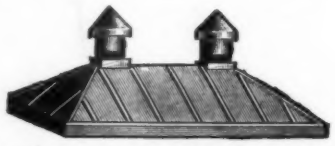
Beer
Milk Can
Oil Can
Cream Separator,

of Various Sizes and Styles.

MF'D. BY

THE CLARK NOVELTY CO.

ROCHESTER, N. Y.



"The Illinois"

METALLIC SKYLIGHTS

Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free.

J. H. JONES, Mfr.,

Lock Box 33. STREATOR, ILL.

C. C. Arbogast, Monterey, Va., writes: "I beg to take advantage of your kind offer of inserting a free want ad. in your journal. Am a regular subscriber to The American Artisan, and I can tell you, without an iota of flattery, that I find it indispensable."

The making of heating apparatus—

Hot Water Heaters, Steam Heaters and Furnaces,

is our Specialty. In over fifty years of experience we have met with about every phase of the heating problem. The manufacture of economical and durable heating apparatus has been our constant aim, and our success has been fully demonstrated by our long continuance in this line.

REMEMBER, efficiency and durability are the sure tests of cheapness.

Catalogues, Price Lists and Discounts cheerfully furnished the trade.

The Boynton Furnace Co.,

New York and Chicago.

N. T. J. Oct. 1-08

QUICK MEAL

THE RANGE THAT LEADS

The practical old-time Tinner says

A SIMPLER, MORE PERFECT or BETTER FITTING RESERVOIR could not be made than the

New "Quick Meal" Right-Hand Reservoir

It is SIMPLE, DURABLE and PRACTICAL. **Nothing else like it on the market.** No dampers to interfere with the draft or confuse the operator. The outside casing is ornamental and so arranged as to allow the air to circulate between the casing and the Reservoir, preventing sweat and steam from draining down the Reservoir sides.

"Quick Meal" Reservoirs are made of Copper, its pockets being drawn out of one piece of extra heavy copper, double seamed to the body and covered on the fire ends with a piece of heavy sheet steel to protect the copper from the extreme heat. When the Reservoir is in place the pockets project through the right wall of the Range and fit flush on the inside, making no obstruction in the flue and allowing the heat to come in direct contact. They are as good as the "Quick Meal" Left-Hand Reservoir—they could not be **better**—but they are better than any right-hand reservoir ever made.

RINGEN STOVE Co. SAINT LOUIS

ESTABLISHED 1847.

Golden N

A Twentieth Century
With Extra High Art

High grade and handsomely decorated Art Parlor Heaters can be found in the Novelty Line.

Better Join our Ranks now and enjoy the commendations of your customers, as those do who have sold the Novelty Stoves in the past.

This sa
Regal N
Burners.

Abram Cox Stov

Chas. A. Rusco,

Mana
Chicago

BRANCHES: Boston, Buffalo.

FOUN

ESTABLISHED 1847.

Novelty

ntury Base Burner
Art Finish.

The Flue Construction is the main point in the Golden Novelty. They have fully one-third more radiating surface as compared with any other Base Burner of the same size, and the greatest amount of heat can be obtained from the Novelty Line, with less fuel, than any other Base Burners made.

There are two cold air flues at the back of these stoves, and are so placed in between the hot air flues that they draw the cold air from the floor, and discharge it from the top at an intense heat.

This same flue construction used also in egal Novelty and Rococo Novelty Base urners.

tove Co., Philadelphia, Pa.

Manager
Chicago Branch, 15-17-19 WEST LAKE ST.

FOUNDRIES: Lansdale and Philadelphia.

Moore's QUICK OVEN Stoves

HOT! HOT! HOT!

Mr. L. H. Callum of White Lake, S. D., has sold a number of Moore's Quick Oven Steel Stoves. He says:

"I sold a Gem to a lady here and she came to my store that night to tell me that she built the same fire to bake biscuit that she had been in the habit of using in her cast stove, and the oven was so hot that she baked the biscuit with the door open."

The next time

SHE SAVED HALF HER FUEL.

QUICK OVEN AND LITTLE FUEL—PEOPLE WILL KEEP ON BUYING THIS KIND.

JOLIET STOVE WORKS, JOLIET, ILLINOIS.

BEST

is the word that accurately describes it.

White's Model Steel Cook.

It stands without a peer. No other steel cook comes anywhere near it in excellence and **the price is right.** Write us for particulars.

Thos. White Stove Co.

Quincy, Ills.

To The Trade

A Few of Our Monograms.

Prize Monogram Steel Range for Soft or Hard Coal orWood. In two Sizes, 18x20 Ovens, 20x20 Ovens.

Prize Monogram Steel Cook in 3 Sizes, 16, 18 and 20. Square Ovens.

23 in.
25 in.
29 in.

The Body Made of 16 Gauge Steel.

Do not Place Your Fall Orders until you have seen our New Lines of Monogram Heaters and Cooks.

Write for Catalogues and Prices, They are Sellers.

The Quincy Stove Mfg. Co.,

QUINCY, ILL.

This is Our "New Standard."

Secure the agency and have a line that is **easy** to **sell.** Good cooking means

Buy a "Standard."

Write for Catalogue and Prices.

Standard Steel Range & Mfg. Co.,
Cleveland, O.

Van's

Pat. Improved Wrought Steel Portable

Range.

For HOTELS, RESTAURANTS, PUBLIC INSTITUTIONS, BOARDING HOUSES and PRIVATE FAMILIES.

All kinds of Hotel Implements for Culinary Purposes.

Manufactured and For Sale by

The John Van Range Co.,

419 Elm and 410, 412, 414 & 416 Home Streets,

CINCINNATI, OHIO.

Model Steel Range

For Hard Coal, Soft Coal or Wood

They are **Models** of all the good things, useful and beautiful, that can be embodied in a modern range. Their popularity, on account of their many good points, have lead many imitators to copy them as near as they dare, but as the oven doors, dampers, fire-box and other features are covered by patents, the imitations are still behind in the race, so far as construction and operation are concerned, and we feel confident that a comparison will result in a most favorable impression as to our claim that they are **Models of Beauty** and just the one range above all others that it will pay the dealer to handle. The large and constantly growing trade we enjoy on the **Model Steel Range** has been built up purely on its merits and not through a lot of extravagant "fake" advertising.

Write for prices and discounts.

The Portsmouth Stove & Range Co., Portsmouth, O.

Morley Bros., Saginaw, Michigan, Agents for Northwest.

THE BUSIEST MAKERS OF STOVES & RANGES IN THE WORLD

Boomer Furnace.

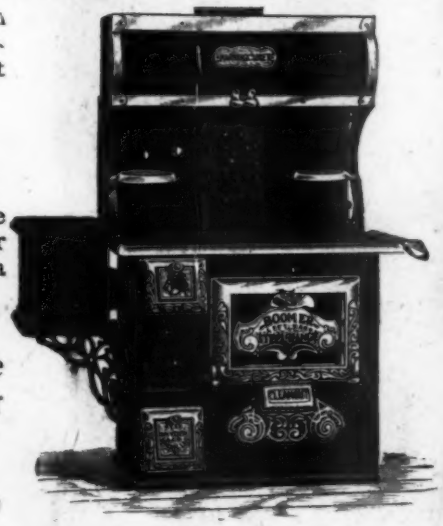
Regarding

Boomer Furnaces Or Boomer Steel Ranges

We want to state in strongest terms possible that if you want the

Heaviest,
Most Durable,
Most Economical

and easiest to take care of Furnace or Steel Range, buy a **BOOMER.**



Boomer Steel Range.

Neither time nor money is spared to make them the best. Buy Boomers and save your coal bills. We invite investigation.

Hess, Snyder & Co.,

Manufacturers, MASSILLON, O.

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Forest Cinderella.

For Wood.

Contains many special features.

Here Are A Few of Them.

Heavy cast iron linings 16 inches high. Pipe Collar interchangeable with top and end. Sweat Damper to prevent creosote deposits. Screw draft register insures perfect control of the fire. Write for full description and prices if you are interested.

STOVES AND RANGES CINDERELLA NEVER FAIL

Pittsburgh Stove & Range Co.,

Pittsburgh, Pa.

WESTERN SALES AGENT W. D. Sager, 38 to 40 Michigan St., Chicago, Ill.

STOVES AND RANGES CINDERELLA NEVER FAIL

The Greatest Eclipse of 1901

IS THE

Lustrous Eclipse

New Hard Coal Base Burner.

The Latest, the Most Unique, the Most Attractive, the Best Operating and Most Economical Hard Coal Base Burner and Double Heater on the Market.

The Highest Quality Ever Offered for the Price.

Full Nickeled. **Full Circular Base Flue.**

Two Sizes—No. 115 and 117.

Write for full description and prices before buying your Base Burners.

The Eclipse Stove Co., MANSFIELD, OHIO.

THE SUCCESS OF

Mueller Furnaces

Has been attained by giving full value.

If you are not one of our customers we hope to make you such.

Write for our 1901 catalogue and prices. Get our

SPECIAL REGISTER OFFER.

L. J. Mueller Furnace Co., 191 Reed St., Milwaukee, Wis.

BRAND STOVE CO.

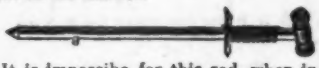
We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogs.

MILWAUKEE, WIS.

The YANKEE Hot Air DAMPER (Improved) All Steel.

Above All, Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest working and neatest damper on the market.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ¼-inch cold-rolled steel and slips into damper very smoothly. **Sample sent to any dealer without charge.**



It is impossibe for this rod, when in position, to move either way.

The S. M. HOWES CO., Manufacturers, 40-46 Union St., **Boston, Mass.**

NEW YORK: A. L. Canfield, 248-286 Pearl St. CHICAGO: Excelsior Steel Furnace Co.

Sizes: 6, 7, 8, 8½, 9, 10, 10½, 11, 12, 12½, 14, and 15. SHEET METAL STAMPING TO ORDER.

Emperor Furnaces

For Wood

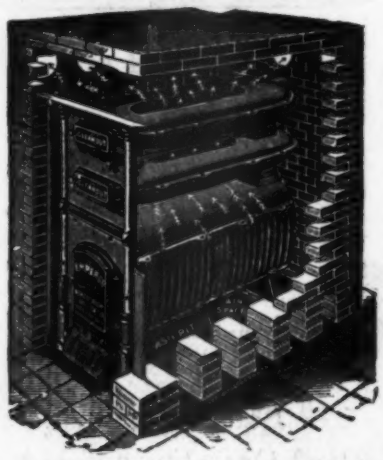
Simple. Safe. Durable.

The Best and Cheapest Line of Wood Furnaces.

Furnished for Either Brick or Galvanized Iron Casing. Send for Catalogue.

Bergstrom Bros. Co.

Neenah, Wis.



Think of the following points in connection with

The Wisconsin Furnace:

Deep Ashpit,
High Ashpit Door,
Patent revolving always-right-side-up grate,
Sectional corrugated firepot,
Large steel radiator,
Gas-tight steel and cast-iron radiator joints and see if you can get the equal in any other furnace. We will quote the trade on application.

Phipps Furnace Co.,

135 ONEIDA ST., MILWAUKEE, WIS.

DON'T READ THIS

Unless you are interested in down-to-the-minute advertising. Have had over 15 years' practical advertising experience with some of Chicago's most successful Manufacturers, Jobbers and Retailers. Am at present engaged with a very large advertiser, but have time to spare and will do a limited amount of work for any one who desires first-class ADVERTISING SERVICE at very reasonable rates. Write for further Particulars.

FRANK. E. RUBOVITS,
233 Fifth Avenue, - - Chicago, Ill.

EDWARD BAUMAN, LIBERTYVILLE, ILL., WRITES: "Discontinue my advertisement in THE AMERICAN ARTISAN, for I have so many letters that it keeps me busy to answer them all."

Finest in the World.

Try a Case from Your Jobber

Large 10-oz. Can with Brush.
Packed One Dozen in Case.

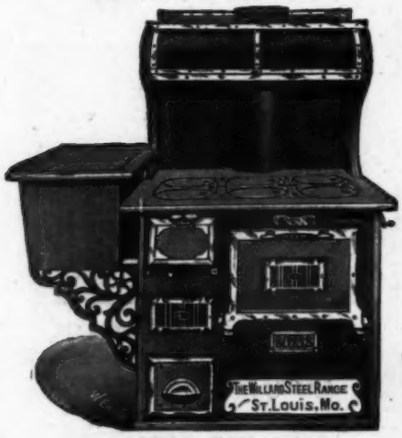
Price,
$1.50 Per Dozen.

NICKEL PLATE STOVE POLISH COMPANY,
Manufacturers **CHICAGO.**

JEWEL STOVES AND RANGES.

JEWEL STOVES AND RANGES
LARGEST STOVE PLANT IN THE WORLD

A Complete, Well Advertised Line;
Low Prices and Good Workmanship.
Please Write for Catalogue.
DETROIT STOVE WORKS.
Detroit - Chicago.



2000

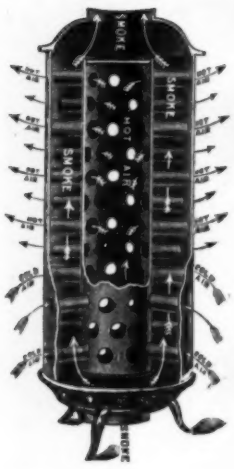
dealers throughout the United States have made good profits by handling the

Willard Steel Ranges.

Why should not you? This steel range is sold at a price that places it within reach of everyone. It is unquestionably the best seller on the market.

Wm. G. Willard, Mfr.,

619-621 N. Fourth St. ST. LOUIS. MO.

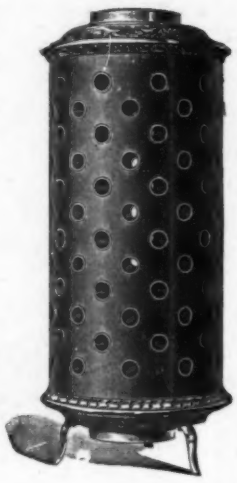


COUNT THE TUBES

IN THE

Rochester Radiator

and you will comprehend the great radiating surface directly over the hot current where one square inch is better than six at the side.



Rochester Radiator Co.,

120 Furnace St., Rochester, N. Y.

No. 230.

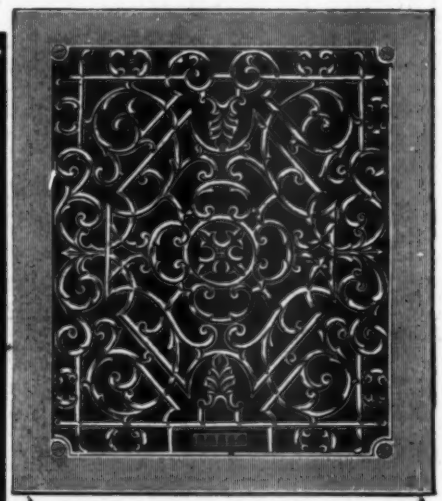
Draft Register Screw and Plate

COMPLETE

MANUFACTURED BY

The Fanner Manufacturing Co.

CLEVELAND, OHIO.



Registers and Ventilators.

A Full Line, Unique Designs

Quality and finish unexcelled. All styles of finish, from Japanned to Gold Plated.

Send for Catalogue.

The Philadelphia Hardware and Malleable Iron Works

Philadelphia, Pa.

Registers, Faces, Borders

Black Japanned, White Japanned, Hand Bronzed,	Nickel Plated, Brass Plated, Bronze Plated,	Copper Plated, Old Copper Finish.

Any size. We make **DISCOUNT 75 Per Cent** on any of above finishes.

1901 CATALOGUE

The most complete catalogue of registers ever printed. Send for one.

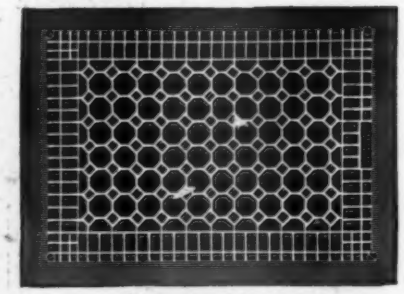
The Schreiber & Conchar Mfg. Co.

DUBUQUE, IA.

Henry & Scheible Co.

SUCCESSORS TO T. R. HENRY.

10 Long St. CLEVELAND, O.



ALL SIZES—ALL STYLES OF FINISH. PROMPT SHIPMENTS.

Quality and finish unexcelled.

SEND FOR CATALOGUE.

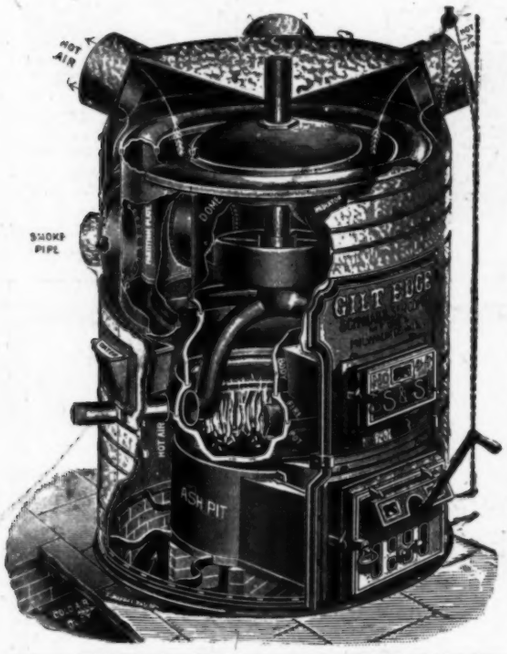
STAR STOVES AND RANGES
ENTERPRISE STOVE CO. VINCENNES, IND.
GUARANTEED

CATALOGUE SHOWING

Gas Ranges
Steel Ranges
Cast Ranges
Steel Cooks
Cast Cooks
Cast and
Steel Heaters
Hot Plates

WILL BE FURNISHED FOR THE ASKING BY

Enterprise Stove Co.
VINCENNES, IND.



Utilized radiating surface, **that is economy.** Sectional fire pots from 1 in. to 2 in. thick and other parts in proportion, **that is durability.** Positive gas-tight joints, **that is necessary to health.** These, with all other improvements **for ease of management,** are combined in the Gilt Edge Furnaces. They are made for all kinds of fuel, and are the very best. Write for catalogue and prices to

R. J. Schwab & Sons Co., Mfgrs.,

E. E. DUNNING,
Manager Furnace Department.

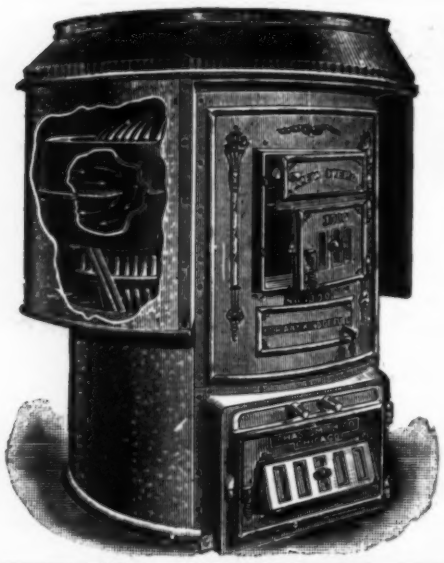
Milwaukee, Wis.

Monarch Air Blast Furnace

STOP! Now and write for our catalogue and price list. The Monarch Air Blast (all cast iron) will make you money and build for you a reputation in the Heating Business, it has done so for : : : : : : : : : **OTHERS.**

The Forest City Foundry & Mfg. Co.

Cleveland, Ohio.

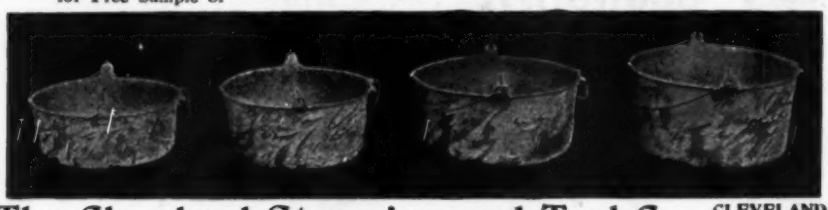


The New Hero Furnace.....

Is especially adapted for a combination of hot air and hot water. All Cast Iron, for Low Basements, Coal or Wood. Made in three sizes for large residences and public buildings.

The Chas. Smith Co.,
122 Lake St., CHICAGO.

Send 10c. in Stamps for Free Sample of **"Solid-Steel" Lava Enameled Ware.**



The Cleveland Stamping and Tool Co., CLEVELAND, OHIO.

LAWLER'S

Automatic CELLAR DRAINER

The best and most successful machine for the purpose in the market.

LAWLER WATER FEED & DAMPER REGULATOR CO.
181-189 Mercer Street, New York City, or **Chicago Engineer Supply Co.**, 167-169 Lake Street, Chicago, Ill.

Henry Bidlake, Osnabrock, N. D., writes:
"Please discontinue ad for Tinners' Tools in your paper. It has done its work well."

Why

don't you, Mr. Dealer, handle a line of steel ranges which have proven themselves to be great money makers? Such a line is found in the

Reliable Steel Ranges.

These ranges are thoroughly up-to-date. They are 365 days in advance of all others and possess special features which no other ranges have. They are built on honor, built to last, and are "Reliable" in every sense of the word. Write for catalogue.

The Schneider & Trenkamp Co.

Cleveland. **Chicago.**

JOHN PORTER, ALTOONA, PA., Writes: "I can't run my shop without THE AMERICAN ARTISAN."

The Tinsmiths' Pattern Manual

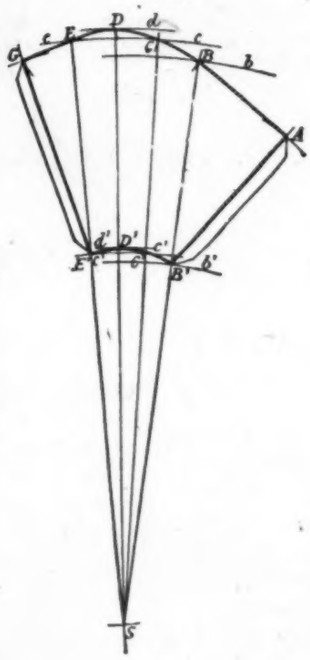
Is recognized as a standard authority on sheet metal work. A new revised and up-to-date edition of 248 pages, 8 x 5, containing over 100 illustrations, has been issued. A page from this book is shown herewith.

208 THE TINSMITHS' PATTERN MANUAL.

or S′ *c* (which is equal to S E) and S′ B successively as radii describe arcs cutting S′ *d* in *e* and *f*. Draw *e* C, *f* F perpendicular to X X and cutting it in C and F; also join C S, F S, cutting O″ D′ in C′ and F′.

Next draw S D (Fig. 79) equal to S D (Fig. 78), and with S as centre and S C, S F (Fig. 78) successively as radii

Fig. 79.



describe arcs *c* and *b*. With D as centre and radius equal to *d* E (Fig. 78) describe arcs cutting arc *c c* in E and C. With C as centre and radius *c* B (Fig. 78) describe an arc

PRICE, $3.50 Per Copy.

Order from your bookseller, or from

DANIEL STERN,

69 Dearborn Street, CHICAGO, ILLINOIS.

ROUND OAK—STANDARD of AMERICA

CURTIS & CANDY CHI. 1900

We are convincing some of the best

FURNACE
DEALERS
IN THE LAND
THAT IT PAYS
TO PUSH
A FURNACE
OF *QUALITY*.
WHEN YOU
ARE READY
WE WILL
WITH GREAT
CHEERFULNESS
TRY TO
CONVINCE YOU.

Estate of
P. D. Beckwith,

Dowagiac, Mich.

MAKERS OF GOOD GOODS ONLY.

HB CHICAGO

ESTABLISHED 1830

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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CHICAGO, JULY 6 1901.

A STRIKING instance of the unprecedented demand for mechanical engineers and educated superintendents in almost every department of mechanical construction is shown by the fact that of the forty young men constituting the 1901 graduating class at Stevens Institute only twelve were present to receive their diplomas in person. The other 28 had all accepted good positions without waiting to have their degrees conferred.

KUHLOW'S German Trade Review in a recent article on the cutlery industry of Solingen, says:

"Business with the United States is reported to give less and less satisfaction. The industry there takes continually new sorts in hand, which used to be supplied by Solingen formerly. An extension of business relations there cannot any longer be thought of. Business in razors was very favorable. There was an increasing demand from abroad, and buyers were very active. But the want of skilled workmen prevented the full exploitation of the favorable period."

NEARLY a half billion pounds of tea were consumed in the year 1900 in countries other than the sources of production. The United Kingdom is the world's greatest importer of this article of drink, having imported for consumption during the year 1900 in round numbers 250,000,000 pounds of tea, as against 116,500,000 imported for consumption by Russia, 83,300,000, by the United States, 7,500,000 by Netherlands, about 6,500,000 by Germany, and nearly 2,500,000 by France. A comparison of the tea consumption of the past year with that of earlier periods discloses the fact that tea is becoming more popular as a beverage in the European countries, though little more than holding its own in the United States, where coffee is the favorite beverage.

WE are just beginning to grasp the significant relationship existing between humidity and deforestation. A recent writer in the Popular Science Monthly in an article on this subject says:

"Springs have disappeared and canyon and ravines are now dry where there were formerly perennial streams. Under the leaf mold and other debris of the forest the soil is always moist, while on denuded areas in the same locality it is parched and dry. Everywhere the deep mulch forming the floor of the forest grasps the descending rains and melting snows and guides them into the deeper rescesses of the earth. Where the forests have been destroyed, or even the mulch and litter forming the forest floor, as it so often is by fire or the excessive grazing of sheep, the rains for the most part, instead of sinking into the soil, pass over the surface, carrying silt and other debris into the streams and reservoirs, causing vital injury to irrigation enterprises. So, also, in the semiarid regions, where there are no forests or where they have been destroyed, the wind has a free sweep, resulting in an enormous increase in evaporation. In some instances the evaporation from a water surface exposed to the free sweep of the wind reaches a maximum of thirteen inches in a single month. In exposed situations snows a foot in depth are frequently lapped up in a single day without even moistening the soil beneath."

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

TRUST promoters can learn a lesson from the career of the National Cordage Co. This consolidation, formed in 1899, controlled two-thirds of the American output. But the hostile one-third proved too heavy an obstacle and four years later the trust failed.

* * *

THE up-to-date department store, as every retailer knows, strives to combine under one roof the greatest hodge-podge of diversified lines Shoe strings or coffins, Morris chairs or anchovies, shrubbery or school books—all is fish to the department store net. Photograph galleries and dentist offices, bankers and lawyers are all to be found in one of these great trade trust establishments. As our readers are well aware, it is a common practice of these stores to rent space in their stores to individuals for various trade and professional purposes. This expansion of the department store idea has been given a deserved set back by a recent opinion of the New York Court of Appeals. A certain New York City department store represented that it carried on the practice of dentistry in connection with various other "departments," and it so advertised. A woman customer, or patient, having undergone treatment in the "dental department," brought suit for alleged resultant injury and got a verdict. The defense set up by the corporation was that the dental business was not, in fact, carried on by it, but was owned by the dentist himself.

But the appellate court held that the company, having held itself out as carrying on a dental department and the plaintiff having been ignorant of the fact that the company was not the real owner of the dental department, the corporation was estopped from making

such a denial. For, under the circumstances, the court said, "the plaintiff had a right to rely not only on the presumption that the company would employ a skillful dentist as its servant, but also on the fact that if that servant, the dentist, whether skillful or not, was guilty of any malpractice, she had a responsible party to answer therefor in damages."

What appears to be a "department" may not be one at all, but representing it as such carries with it all the liabilities commonly attaching to that business. The dentist, the oculist, the chiropodist, the manicure, the massagist, or what not, may be altogether too serious a burden for department store expansion to carry along.

* * *

THE religious and temperance people are rallying to the support of commercial interests in prohibiting rural free delivery carriers from acting as drummers for wholesale houses. Leading church and temperance societies have represented to the department that the carriers not only solicit orders from their patrons, but that they actually deliver merchandise in competition with the country merchants, and that in several "dry" districts or local option sections they are bringing in intoxicating liquors. The carriers find the business lucrative, as their commissions have been large.

* * *

A STRANGE parallel to the delightful story of Rip Van Winkle has just come to light. In May, 1899, a man named J. W. Baker, who was working to secure a consolidation of the stove manufacturers of the country, guaranteed to go through in ninety days, after a particularly hard day's work in trying to hypnotize a stove maker into believing that the trust was a good thing, wandered off into the woods and fell asleep. In June, 1901, this promoter woke up and, unaware that two years had elapsed since he started in on his little nap, he took up his stove trust program exactly where he left it off.

Two years ago the stove fraternity showed a decided wariness in nibbling at "Rip" Baker's unbaited hook, and he can hardly expect to be able to form a trust today based on ideas of trust promotion that became obsolete during his prolonged hibernation. For instance, Brer. Baker wants stove men to sign the following heads I win, tails you lose agreement:

"The appraisers to value our properties as manufacturing stove plants. After the valuation has been fixed upon these properties, we agree either to accept, in pay for the same, seven per cent preferred stock of the consolidated company, or to rent the plant to the consolidated company, for a period of five years, on the annual rental of seven per cent upon its appraised valuation. At the expiration of the five years, the consolidated company shall have the privilege of extending their lease for another five years under a new appraised valuation.

"If, however, we should not desire to sell or rent the property, we will agree with the consolidated company that stoves shall not be manufactured on said property for a period of fifteen years without their consent.

"We further agree that all of our patterns, machinery and foundry appliances, together with office fixtures, shall be appraised by a committee of the stove manufacturers, each concern going in the consolidation, to have one representative on the committee. On the appraised value of these properties, we agree to accept, in pay for the same, seven per cent preferred stock in the consolidated company.

"We also agree that, upon the transfer of our properties, we will deliver to the consolidated company all the manufactured goods that we have on hand, at foundry cost, and all the raw material at the market value at the time of delivery, and will receive in pay for the same seven per cent preferred stock of the consolidated company."

In the 49er days in California some storekeepers used to cheat the miners in only three ways: (1) They weighed his "dust" on short-weight scales. (2) They had a small hole in bottom of the scales so part of the dust would drip into a receptacle below. (3) They paid for this gold in short-weight store truck of inferior quality at fancy prices.

At any rate these miners, after passing through their three degrees of fraud, received something in return for their dust. What will the stove manufacturer who bites at Rip Baker's scheme get? Of course he may get something besides what Pat found in the empty whisky jug, but if he does I doubt it. In the confidential letter quoted above the stove maker can either rent his plant or keep it idle for fifteen years, as no definite promise is made that the foundry will be used under any circumstances.

Two years ago "Rip" Baker said he had all kinds of "dough" in his jeans, and just to let the stove world know that he was not "touched" during his 730 days of dalliance in the arms of Morpheus, he asserts that he still has pyramids of coin in plain sight. If this is so why then does he offer to shovel out preferred stock in payment for these plants instead of the cold, hard cash?

When Baker sprung himself on stovedom two years ago as a full-blown trust maker, the "stovers" big and little gazed at him with interest as a new and unknown species, but while "Rip's" snores were jarring the atmosphere of noon and midnight alike, a number of stove magnates became tired of working hard, and in order to have a good excuse for visiting some of their old cronies and fellow members of the Carrienational Association of Stove Manufacturers, they announced to their trusting stockholders that they were going to form a stove trust and get on the very center of the inside. The recent Paris-Berlin automobile race is not in it with the struggling competition of rival stove trust promoters. Besides the retinned and repolished "Rip" Baker, there are two Illinois men, two Ohio men, a Missouri man and a Pennsylvania man in the race. Each is eager to be the patriot that will save stovedom from the machinations of the other. Each is anxious to be a Liliputian Morgan, for when billions are bunched, millions become mites.

Here's success to the stove trust makers. May all seven trusts succeed. May each and every one secure two-thirds of the manufacturing capacity of the country.

News Siftings.

It is said a new stove foundry costing $75,000 will be erected at East Thomas, Ala.

It is said the American Bridge Co. are contemplating the erection of a new plant at Pittsburg, Pa.

The Minnesota Stove Co., Shakopee, Minn., send us a postal circular showing their King Coral and Star Coral air tights.

The Reineke, Wilson Co., Pittsburg, Pa., send us a copy of their Trade Topics, which urges visitors to the Pan-American Exposition to include Pittsburg in their trip.

Wm. Resor & Co., Cincinnati, O., have handsomely ornamented and improved their Monitor Oak, and also brought out a cheaper line of Oaks, which they call the Peerless.

Geo. F. Mercer, James T. Wakeman, George H. Everson, Thomas Clark and Henry H. Goodman are the incorporators of the Everson Steel Co., Charleston, W. Va., capitalized at $3,000,000.

The American Stove & Range Co., Keokuk, Ia., send us some handsome blotters calling attention to their manufacture of American steel ranges, American steel cooks, American hot blasts and American Oaks.

The Fair-Day Foundry Co. are succeeded in the stove foundry business at Knoxville, Tenn., by the Fair Foundry Co. This change was made on account of A. B. Day, the vice-president and superintendent, withdrawing from the firm.

The Home Stove Co., of Indianapolis, Ind., have just erected a three-story warehouse, 100x40 feet, and a new steel range shop, 100x70 feet; they have also erected a new and substantial boiler house, and have installed therein two new boilers. Their trade is very satisfactory.

W. T. Bradberry, William H. Collingwood, Thomas M. Dudgeon and Robert A. Bradford are the incorporators of the Superior Mfg. Co., Allegheny, Pa., capitalized at $25,000, for the manufacture of gas logs and asbestos and sheet steel burners. This firm have secured a three-story factory in Allegheny.

James W. Brown, Geo. A. Howe, T. H. Childs and Chas. M. Brown, formerly stockholders of the Crucible Steel Co. of America, are backers of the Colonial Steel Co., of New York City. This concern is putting up a $1,000,000 plant and will employ about 700 men. It expects to be able to start up the first of next year.

The Schill Bros., at Crestline, O., who made extensive enlargements and improvements to their works last year are again furnishing practical evidence of their views on the subject of expansion. They are building an addition to their moulding room, 70x100 feet, which will give them a moulding building 250x70 feet in extent. They are also building a three story brick structure 50x120 feet, and the two story office structure, 20x70 feet. When these improvements are completed they will employ 60 moulders and about 200 hands. They have also improved their shipping facilities by the construction of their railroad siding into their works.

On July 2nd lively times were experienced in the hardware store of Peters & Little, Garrett, Ind. This excitement came in the shape of a double explosion. The first was a result of a leak in a gasolene lighting plant, and the second was by the explosion of a can of gun powder, caused by the first.

The Peerless Stove and Range Co., 44 W. Naghten St., Columbus, O., send us their 1901 catalogue of Peerless gas heating stoves. Among their stoves is the Peerless Queen, closed front style for natural gas. This stove has a cast iron front with large mica frame, drop door for easy access to the burner, and movable fender. These are easily removed to change into an open front stove. The top and sides of the stove body are made of Russia iron, giving the stove a rich finish. This little catalogue will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Ringen Stove Co., St. Louis, Mo., have a very striking reservoir in their new "Quick Meal" right-hand reservoir, for use in their line of Quick Meal steel ranges. The outer casing is ornamental and is so arranged as to allow the air to circulate between the casing and the reservoir. These reservoirs are made of copper. The pockets are drawn out of one piece of extra heavy copper, double seamed to the body and covered on the fire ends with a piece of heavy sheet steel to protect the copper from the extreme heat. When the reservoir is in place the pockets project through the right wall of the range and fit flush on the inside.

W. H. Colebrook Sons & Co., Syracuse, N. Y., for whom Chas. Smith & Co., 122 Lake St., Chicago, are western selling agents, send us a decidedly novel Fourth of July card, which has a pretty string and card arrangement by which a little American flag can be raised. This card has this to say of the glorious "Fourth:" "What a day it is! There is no other day on which 'Old Glory' looks so beautiful. We all enjoy it, old and young. The 'grown folks' may be a little dignified the first part of the day, but later unbend and under the excuse of 'showing the children how,' themselves like to 'put off a few.' It's a day when Americanism is the chief sentiment and we are all proud we are Americans. And why shouldn't we be?"

Schill Bros. Co., Crestline, O., send us a circular describing the Schill B. & C. cast ranges, made with 8 and 9 inch covers, four and six hole, 20 and 22 inch ovens and in every conceivable style. A special feature of the B range is found in the perforated front fire box liners with screen draft, "Hot Blast," thus admitting hot air directly into the fuel. Another novel and very desirable feature is the ash pan, which is at the bottom of the range and is removed from the front. The clear-out is under the oven shelf, enabling the entire range to be operated from the front. This range has very heavy liners, sectional fire back, duplex grate, extension fire box for wood, large and convenient feed door and cemented top oven plate. The tea shelves, name plates, oven door panel and shelf handsomely nickeled. The C. range is identically the same with the

exception of hot blast, ash pan and feed. One of these circulars will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

CHICAGO GAS COMPANY PUSHES GAS RANGE SALES.

The People's Gas Light & Coke Co., Chicago, are pushing the sale of gas ranges by sending out a little slip reading as follows:

"Are you using a gas range? If not, why not? Everyone knows that gas for cooking purposes is the only fuel, being cheap, clean and convenient. The People's Gas Light & Coke Co. is selling the best makes of gas ranges, all sizes and many styles, on such easy terms that they are within the reach of every family. Gas ranges at wholesale cost, on easy payments (60c to $1.30 per month till paid for). Delivered and connected free."

PAN-AMERICAN INFORMATION.

The Thomas Roberts Stevenson Co.'s Buffalo, N. Y., branch, 58-60 Broadway, that city, C. B. Halladay, Mgr., extend the trade a cordial invitation to make this branch their headquarters while visiting the Pan-American Exposition. They also send out a useful and timely booklet giving a little information on the Pan-American Exposition, principal streets, leading hotels, etc. This useful booklet will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

THE INDEPENDENT STOVE PIPE RADIATOR.

The Independent Register Co., Cleveland, O., send us an interesting little booklet that tells how "To Heat a Room Without Cost for Fuel." This method consists in the use of the Independent stove pipe register. This radiator is square with an ornamental cast iron top and base finished in either nickel plate or black japan, as may be desired. The shell, or outer wall, is made either of Russia iron or cold rolled steel. The shell is filled with steel radiating tubes, which pass from the back to the front of the radiator, and through these tubes there is a constant circulation of air. These are made in a variety of sizes and styles.

One of these booklets will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

CHANGE IN STYLE OF OHIO STOVE CONCERN.

The Pioneer Stove Co., Columbus, O., with a capital stock of $100,000, was incorporated July 1st, with the following officers: George W. Lattimer, president; George B. Kauffman, vice president; Allen W. Williams, secretary and treasurer. This company now owns all of the patterns formerly belonging to Geo. W. Gill and C. S. Reynolds & Co. Besides the present large manufacturing business, they expect to do a large jobbing business in gas stoves, oil stoves and refrigerators, and are now arranging a large addition to their warehouses. This business was originally established by John L. Gill, in 1826, succeeded in 1868 by Geo. W. Gill, succeeded in 1888 by C. S. Reynolds & Co., and incorporated July 1st, 1901, as The Pioneer Stove Co.

MODEL STOVES AND RANGES.

The Home Stove Co., Indianapolis, Ind., send us a copy of their handsome catalogue of Model stoves and ranges. The "Model" steel range has a body made of extra heavy thickness steel, lined with heavy asbestos board and steel. An extra piece of steel is bolted to the left side of the wall of the range leaving an air space between it and the body of the range. This is an extra protection to keep the enamel from peeling off from the intense heat which is on that side of the range. The walls of the oven doors are fully three quarters of an inch thick. The oven tops and sides are made of one piece of heavy steel, the top being so arched as to make it especially strong and it has a very heavy cast steel brace firmly rivited across the center. The oven bottom has an extra heavy steel plate with a heavy cast iron brace and cast iron flue strip firmly riveted to it. The oven door is double, with an air space between the two sheets to ventilate the oven and prevent the nickle from tarnishing. The fire box is made large. The back flue is made of sheet steel, except the elbow at the bottom which is cast iron. The ash pan is made of extra heavy iron. The ornamentation is neat and tasteful.

The Model Leader planished steel cook has two walls of steel lined with one-fourth inch asbestos. The reservoir casing is cast iron, japanned. The oven top is steel, cast iron grating, cemented. The oven bottom is of No. 10 steel, extra well braced. The ash pan is extra large. The oven doors are hung with spring balance. The base sets flat on floor. The fire box has two end walls.

The Art Model cast range, for hard coal, soft coal or wood, has large oval fire box with sectional linings and duplex grates for coal or wood. The ash pit is large and deep and is provided with guards conveying the ashes to the center of the ash pan. The flues are large and easy of access through opening in the ash pit. The tops are broad and flush over the reservoir, mounted in sections and supplied with sectional centers and heavy Boston ring covers. The ornamentation is enriched by a handsome nickle oven door panel, nickel oven door shelf, nickel front door panel, nickel tea pot stands, nickel towel rod, knobs, etc.

The Model Oak 1901 pattern is entirely new. The base is cast in one single piece. It has single front feed door, lathe ground and fitted on by special machinery; automatic latches, hot blast damper in feed door; cast ring above fire pot making air tight joint and protecting steel body; nickel steel ring; nickel foot rail, dampers, latches and name plate.

One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

The Hardware Record.

Arkansas Retail Hardware Dealers' Association.
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1st Vice-Pres., J. F. Maxey, Ozark.
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Wisconsin Retail Hardware Dealers' Association.
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Vice-Pres., Otto Schlafer, Appleton.
Sec., C. A. Peck, Berlin.
Treas., George Leverenz, New Holstein.
Ex. Com., Henry Droegkamp, Milwaukee; Aurhur Heins, Tigerton. E. H. Ramm, New London; J. Wilkie, Fond du Lac.

The Mann Hardware Co., capitalized at $30,000, is a new Greenwood, Miss., concern.

The J. S. Simpson Hardware Co., capitalized at $20,000, is a new Austin, Tex., concern.

The wholesale hardware business of Teague, Barnett & Co., Montgomery, Ala., is succeeded by G. W. Barnett & Son.

The Wabash Screen Door Co., Rhinelander, Wis., are putting up a screen door factory in Memphis, Tenn. This brick building is 80x504 feet in dimensions, 3 stories high and cost $45,000.

Julian W. Perkins, for many years connected with the E. C. Atkins & Co., the saw manufacturers, of Indianapolis, Ind., has been appointed special representative to look after their interests on the Pacific coast, with headquarters at Portland, Ore.

For a number of years the A. F. Shapleigh Hardware Co., St. Louis, has been a prominent name in hardware jobbing circles. On July 1st, after the best six months' business in their history the firm was succeeded by the Norvell-Shapleigh Hardware Co.

M. L. Corey, Argos, Ind., who was a visitor at the recent convention of the Arkansas Retail Hardware Dealers' Association, advises us that this meeting was a great success, and that the Arkansas dealers are very enthusiastic over the outlook for the National Retail Hardware Dealers' Association.

The Harrington & King Co., 212 N. Union street, Chicago, make a complete line of perforated metals in steel, iron, copper, brass, zinc, tin and all other metals, for cotton, woolen, paper and pulp mills, rice, flour and cotton seed oil mills, sugar houses, filter presses, mining and grain cleaning brick and tile works, filters, gas and water works, etc.

Henry C. Weber & Co., Detroit, Mich., hardware dealers, have a very attractive show window. In the center is a large trade mark of the line of stoves they sell illuminated by 200 rubies through which the glow of electric lamps shines with a beautiful effect. All around are stoves and ranges, which are painted a ruddy hue by the soft light. There is a new camp stove, too, which is of interest to sportsmen and all who like to live in the open or under canvas. The accompanying outfit contains fifty-two pieces. The window likewise contains a fine display of golf sticks, baseball implements, fishing tackle, camp stools and so on, while behind all are American flags draped as a background.

The intense heat is responsible for the death of Charles H. Williamson, of Philadelphia, who for the past year has been on the road as a special representative of the small key business of P. & F. Corbin, New Britain, Conn. Mr. Williamson was in his 50th year, and was stopping at the Briggs House, Chicago, when he became temporarily deranged from the heat and hung himself from the closet door by the strap of his valise. Manager Stevens, of the Chicago office of this firm, said: "Mr. Williamson was a steady, methodical salesman of exemplary habits, and he stood very high with our people. His death is unquestionably due to temporary aberration, caused by the intense heat."

THE RETAILER, HIS RIGHTS AND HIS POWER.

BY W. P. LEWIS, PRESIDENT OF THE NATIONAL RETAIL HARDWARE DEALERS' ASSOCIATION.

NATURAL RIGHTS.

Man was born with lungs. This fact establishes his natural right to breathe. He is also born with intellect and hands. This fact establishes his natural right to labor with mind and muscle. So nature, which is neither illogical nor incomplete, also supplies air for the lungs and material for mental and physical labor. Man's right, therefore, is to live, to labor and to elect. What disposition shall be made of the products of his labor are natural rights. They are indefeasible, inalienable, and any system of human relations which declines to acknowledge the verity of man's natural rights will surely fail.

THE WRONGS OF SLAVERY.

Slavery was not wrong because the slave was cruelly treated, improperly housed, fed or cared for. This affirmation in many cases was untrue. But slavery was wrong because man's natural rights were violated.

TRADE RIGHTS.

There is in the commercial world certain "trade rights" which may very properly be likened to man's natural rights in that the demand from organized society, which creates the retail hardware man, also creates his field of operation. The modern method of hardware distribution is rational and sound. First, the manufacturer; second, the jobber; third, the retailer. These three, in the order named, are the trinity of commerce, and their respective spheres are well defined. The manufacturer supplies the jobber, the jobber supplies the retailer, the retailer the consumer. That this is the natural relation is thoroughly understood by manufacturer, jobber and retailer, and that this natural right of the retailer is violated both by the manufacturer and jobber is evidenced by fact, indisputable. Out of this condition grows the contention of the retail dealers with the manufacturer and jobber who tramples on their natural rights, and out of this condition will grow an "irrepressible conflict."

BOTH ARE INDISPENSABLE.

It is idle to talk of the passing of the retailer. It is equally absurd to anticipate the decline of the jobber. Both are indispensable members of the commercial entity, and for mutual, profitable existence there should be harmonious relations. But the manufacturer and jobber, in their zeal for business, overstep the boundary of their respective spheres, and, without apology or ado, break the first commandment of the commercial decalogue, "Thou shalt not covet retail trade."

A FLAGRANT VIOLATION OF RETAILERS' RIGHTS.

This tendency to trespass on retail territory is manifest in many lines, but the distribution of builders' hardware is a splendid example of the frequent violation of the retailers' natural rights. Jobbers and manufacturers sell direct and over the heads of their own customers, to architects, contractors and owners. These are consumers and therefore belong in retail territory. It is insufficient to suggest that frequently their wants are large, and therefore the manufacturer and jobber should sell them. Such fact cannot change their classification as consumers. A jobber recently received a request from a number of his customers asking that he abandon his practice of selling builders' hardware to the consumer. His reply stated that some of the orders were large, and the inference was, therefore, that he should sell them. And he also inquired what they would promise him in return if he would quit the retail field.

A STRIKING ALLEGORY.

The attitude of this jobber toward his clients is very similar to that of a vendor of fruit trees who sold his customer an assortment of trees. The customer held valid title to a piece of ground on which he planted the trees. He dug, and pruned, and mulched, and sprayed. The vendor came again that way, but the crop was scarce and small, so he paid little attention to the fruit and offered more trees. His customer bought them at the vendor's price, paid the cash, set out the trees and cultivated assiduously. The trees grew large and hung heavy with fruit, ruddy and tempting. The vendor passed again. He saw the fruit, stepped over the boundary and began to pluck and gather and put into sacks. The owner (his customer) came and said, what right have you to come into my field and take the product of my labor? The vendor said, what will you promise in return if I quit your field? Such expressions as these from representative intelligence among jobbers indicates outrageous rapacity and greed on one hand and leering insolence on the other.

RETAILERS HAD THE LARGER CAPITALIZATION.

The retailers of this country are ignorant of their power. A recent investigation showed that in a certain state the capitalization of the members of the Retail Hardware Association exceeded that of the jobbers, and the membership did not equal 50 per cent of the state's retailers.

More than this, the retailer is the one who comes in personal contact with the consumer. His encouragement or disparagement has great weight in the placing of his merchandise with consumers.

CHANGES ARE EASY.

In the personal experience of the writer an article long recognized as the standard of excellence was, and is, practically cleared from the shelf and in its place is sold the product of a competitive concern, and this is done easily. Our profits are materially increased, nor is the interest of the consumer in any sense violated. His purchase is of a quality which equals any similar article produced. The change was made because the orignal concern was contemptuous of retailers' requests. The second concern, whose goods we now handle, was not.

THERE IS NO OTHER PLAN.

The attitude of those concerns who hold the retailer in contempt will soon be known to the members of the National Association. Every hardware man, anywhere in the United States should belong, first, to his state organization, and then insist on its affiliation with the national. There is absolutely no other plan, argue as you may. This is the move. The community of interest idea, developed by the long heads of railway and other interests, is bringing success. It has a ready ap-

plication to retail hardware dealers. The national organization gives them the one opportunity to be felt in the war on those who violate the sanctity of retail territory.

TRENCHANT POINTS.

First, the membership fee of one dollar is nominal. Any man who is sincere will not hesitate because of the fee.

Second. Loyalty to the principles expressed in the constitution is of more value than a hundred fees.

Third. Persistency counts. We should enlist for a period equal to that of our sojourn in the hardware business.

Fourth. We are, and in all conscience should be, self-supporting. We ask no money contribution and will accept no financial aid from any manufacturer or jobber in the land. We are men with capital invested. Millions in the aggregate. We will give fair treatment and will demand fair treatment.

ARKANSAS SWINGS INTO LINE.

The Arkansas Retail Hardware Dealers' Association, by unanimous vote, joined the National June 20th. Every hardware association in the country, not already affiliated, should do the same at their next executive meeting or next annual convention. This is vital to their interests as well as the interest of the national organization. The volume of hardware to be distributed is increasing. Our profits in the business and our share in the distribution depends upon its being placed through the proper channels. Every hardware man should act promptly and should act continuously until "piracy exists no more and fairness reigns on fields of peace."

DAY OF THE PICNIC APPROACHES.

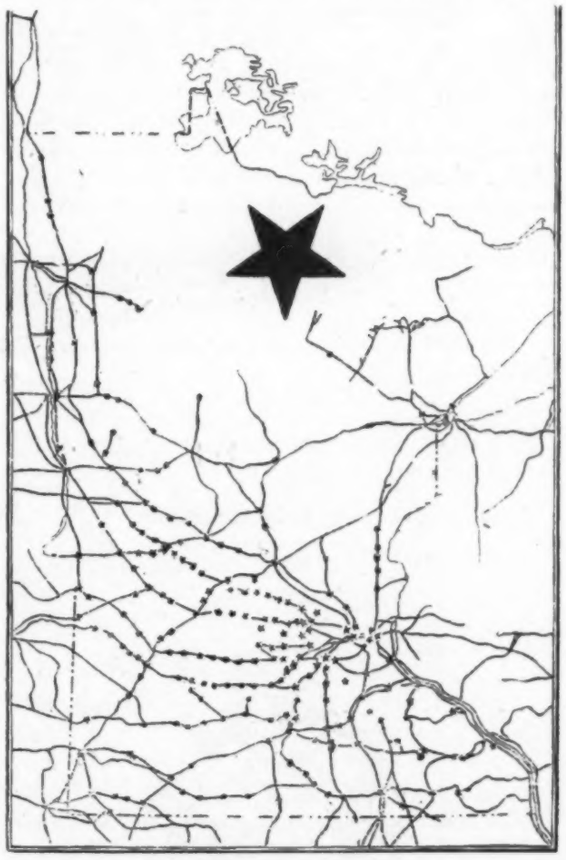
Tony Englehardt, Fred Ruhling, Wm. B. Costello, H. E. Gnadt and W. T. Gormley, the Picnic Committee of the Chicago Retail Hardware Dealers' Association, are working like beavers to make a glorious success of the forthcoming seventh annual picnic of the association, to be held at Fox River Grove, Ill., July 17th. This picnic bids fair to be a more conspicuous success than any of its predecessors. Besides the running and other races of previous years, there will be prize bowling, swimming races, a ball game between the jobbers and retailers, etc. The list of prizes includes 49 aluminum kitchen utensils, donated by C. Sidney Shepard & Co.; a bicycle, a gas range, donated by Schneider & Trenkamp; a gas stove, donated by the Brand Stove Co.; a saw case with four assorted saws, given by Bishop Saw Co.; three etched silver steel saws, given by E. C. Atkins & Co.; a manicure set, given by Bullard & Gormley; a Winchester gun with 500 cartridges, given by Wells & Nellegar; a refrigerator, given by Ranney Refrigerator Co.; food chopper and ivory handled cake knife, given by Landers, Frary & Clark; a hammock, donated by L. Gould; Royal wringer, donated by American Wringer Co.; oil heater, given by A. C. Barler Co.; a roll of No. 48 wire netting, by Gilbert & Bennett, and 150 feet of hose, reel and nozzle, by Rubber Belting Co. As the picnic is yet over a week away, a number of other local jobbers and manufacturers who have not yet been approached will undoubtedly give something.

An interesting innovation will be found in the raffling off of many of these valuable prizes by a scheme which gives every attendant at the picnic a free chance. Each ticket to the picnic, besides entitling the purchaser to transportation both ways and admission to the grounds, contains a coupon which gives the holder a chance in the raffle, which will be held on the grounds.

Fred Ruhling, the secretary of the Picnic Committee, assured a representative of THE AMERICAN ARTISAN that the committee, and the entire association for that matter, were very anxious to have every hardware dealer in the city, whether a member of the association or not, close his store on the picnic day and take his family with him on this most enjoyable outing.

ADVERTISING A STATE HARDWARE ASSOCIATION.

The Minnesota Retail Hardware Dealers' Association have gotten out a very interesting and striking little folder soliciting new members. This is designed in imitation of a railroad folder and the starred map of



the state represented herewith shows where the strength of the association is located. The comparison is carried out to small details and the card should bring a number of new members into the association.

SPECIAL TRAIN TO BUFFALO.

The Cattaraugus Cutlery Co., Little Valley, N. Y., will run a special train of ten cars from Chicago to the

Pan-American Exposition at Buffalo, via the Erie R. R., the aforesaid train leaving Chicago at 3 p. m., July 22d. This will be a fast limited train with sleeping cars, dining cars, etc., and sleeping car accommodations will be reserved by all who ask for them in advance.

IWAN'S SERRATED HAY KNIFE.

Iwan Bros., Streator, Ill., are manufacturers of Iwan's serrated hay knife shown in the accompanying cuts.

This knife is made in two styles, viz., malleable iron grips, as shown in Fig. 1, and wooden grips, as shown in Fig. 2.

In Fig. 1 the malleable iron grip is shown in two positions, that of the dotted lines shortening the handle six inches and enabling the operator to use the knife while in a kneeling position. At the same time this fits the leverage for men below the average height. In Fig. 2 this knife is shown with wooden handles, which can be adjusted to any desired angle, as the grips stand out from the knife, so as to clear the user's hand from the stack. Unless otherwise specified, iron handles are sent.

Fig. 1. Iwan's Serrated Hay Knife, Iron Handled.

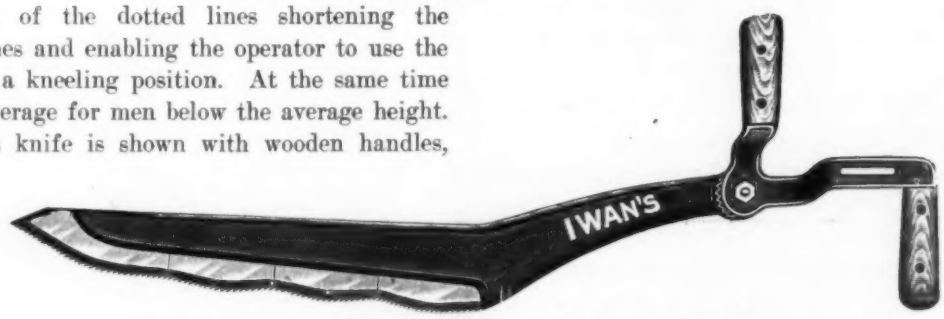
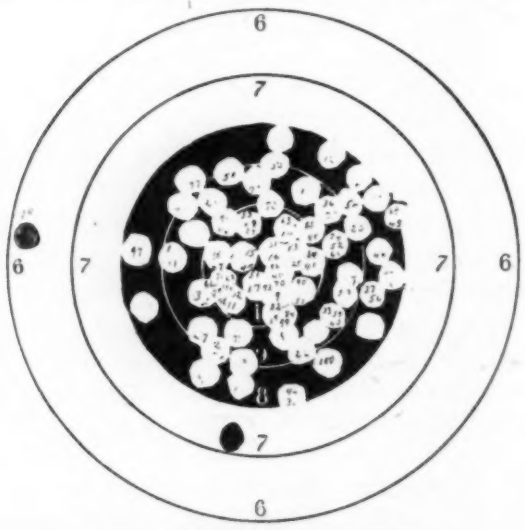


Fig. 2. Iwan's Serrated Hay Knife, with Wood Handles

NEW REVOLVER RECORD.

The accompanying target represents the new 100 shot revolver record at 50 yards on the Standard American target, which was made at Avondale Range, Savannah, Ga., June 1st, 1901, by Capt. C. S. Richmond, the well-known revolver marksman. This score of 918 points beats the previous record by three points. Capt. Richmond used a .44 calibre revolver and Peters factory Mid-Range loaded cartridges. The shooting was witnessed by trustworthy persons, and the correctness of the shooting sworn to before a notary public. The Peters Cartridge Co., Cincinnati, O., are the makers of the cartridges that marred the appearance of this target. Fortunately a target has no standing in a course of law, or else the one shown herewith would have a cinch case of assault and battery against both Capt. Richmond and the Peters Cartridge Co.



Capt. C. S. Richmond's Score.

WILL LOCATE IN KOKOMO.

After canvassing the propositions made by a number of different cities the Kokomo Steel & Wire Co., on June 26th, decided to accept that made them by the city of Kokomo, Ind. Their new wire mill will be in size about double that of their present plant in that city and constructed in the same general way. Their rod mill will be a steel building about fifty (50) feet in width by three hundred (300) feet in length. They will invest from $300,000 to $350,000 in this plant and when in full operation will employ fully 400 men. One engine, which they have already ordered, is of 3,000 horse power capacity and their boilers are of 4,000 horse power capacity. Their pay roll will aggregate from $20,000 to $25,000 per month. For the location of this plant in Kokomo a site of fifteen (15) acres of ground so situated that it would be convenient to the railroads, and $15,000 in cash was asked by this corporation and given by the citizens of that thriving Indiana city.

Goshen, Ind., has installed a municipal hot water plant.

E. C. Atkins & Co., Indianapolis, Ind., will open a New York branch at 64 Reade St.

Advertising Department.

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

The accompanying advertisement of the Eclipse Stove Co., shows a very clever new idea in advertising display and one that I have not the least doubt will be widely copied by other advertisers so that in time the Googoo Baby Food ad will show a baby under the magnifying glass and the Col. James cigar will be shown

under different diameters. This cut is quite an expensive one requiring a skillful engraver, but there can be no question of its superior effectiveness particularly in view of its originality.

The Estate of P. D. Beckwith, of Dowagiac, Mich., are helping retailers push their goods by extended advertising in the local press. A very excellent advertisement of theirs is shown herewith, the display being

unusually good. If they keep up this publicity campaign in time the handsome features of Doe-Wah-Jack will become as familiar to the general public as they now are to the retail stove trade.

E. M. Austin gets up some very striking advertising in the Litchfield, Ill., papers. Owing to the use of a generous sprinkling of cuts his advertisements have a fresh, newsy appearance, the reading matter is

crisp and to the point and the prices made are certainly very good. Of the two advertisements shown herewith the upper one is decidedly the better as it is more symmetrically displayed and the various subheads are so

forceful that whichever one catches the eye will bring the readers attention to this advertisement.

The lower advertisement is far above the average retailers. The "A Match and a Minute" is a striking presentation of the "Quick Meal" gasolene stove.

Ralph McKee, George R. Allison and John W. Avery are the incorporators of the Hundley Heating & Furnace Co., Jersey City, N. J., capitalized at $100,000.

Heating and Ventilating.

The Buckwalter Stove Co., Royersford, Pa., send us a circular calling attention to their Eclipse Junior furnace. The radiator in this furnace is constructed of heavy steel plate. The draft space through it is roomy and adapted to use any fuel. The joints have broad flanges, and are packed with asbestos cement. The radiating surface of this furnace is the heavy fire pot with broad corrugations, the conical one-piece dome and the inner and outer surfaces of the radiator. The distinctive features are the one-piece cast dome, straight fire pot, self-cleaning radiator triplex grate, mammoth ash pit and handsome front.

KELSEY WARM AIR GENERATOR.

The James Smart Mfg. Co., Ltd., Brockville, Ont., Canada, send us a large circular calling attention to the Kelsey warm air generator, manufactured by the Kelsey Furnace Co., Syracuse, N. Y. The Kelsey fire pots are durable, as each section forming the fire pot is four sided and allows the heat to radiate away from the face to the sides and back of same; this, together with the fact that fresh air passes directly up through the sections prevents that part of the section in contact with the fire, becoming over heated. Each section is independent, and has ample room for expansion. The air in this generator has two courses to take—through the long, hollow sections, or through the air chamber between the inside and outside casings. As the sections are hottest the main volume of air passes through them, but all air mixes before entering the warm air pipes. The grates used are the Symth pattern, having four revolving bars, triangular in shape, presenting to the fire a new surface at each one-third revolution. The bars are each independent from the other, and any one can be replaced without the expense of an entire new grate.

The fire chamber is formed by lacing side by side, above and around the grate, a number of upright, cast iron sections, with the sides deeply corrugated, and the whole section, nearly V shape in form. With such hollow sections set side by side, it is easily seen a perfect cylinder is formed, and it is the center of the cylinder thus formed, that provides the fire and combustion chamber. These hollow, corrugated sections widen at the top. The sides of the upright, hollow sections above the fire are about 1½ inches apart, the backs of the several sections being joined together by an overlapping flange cast on the back of each section; this overlapping flange is omitted for a space of seven inches at the upper end of each section, to allow exit for the waste products of combustion. A heavy iron casing enwraps all the castings above the ash pit; a three-inch space between the backs of the upright sections and the steel casing forms the down draft chamber, conducting the waste products of combustion to the indirect smoke pipe. The outside galvanized iron casing is lined with asbestos sheathing and tin, and is distant from the inside steel casing four inches, thus providing an ample air chamber in addition to the great area of all the long hollow sections.

ROBINSON'S TUBULAR FURNACES.

The Robinson Furnace Co., Chicago, send us their latest catalogue showing the Robinson tubular warm air furnaces. The flues in these furnaces are the standard 3-inch, 4-inch and 5-inch wrought charcoal boiler tubes. They are seamless, 24 inches long, and weigh from 7 to 18 pounds each. The radiators are made with cast iron tops and bottoms, and the flues are encased in a heavy sheet of refined steel in one piece. The joints are all cup joints, and the entire radiator is put together with the best quality of asbestos cement. The smoke enters the pipe direct when the damper is open, but is forced entirely around the radiator when the damper is closed, thus making it a full return flue radiator.

Their Eclipse grate, new last year, consists of two pieces only. The main grate slopes toward the middle, so that the cinders gradually work to the center when the grate is shaken. The dump center can be reversed and thereby the fire is freed from cinders without the use of a poker.

The Robinson Hot Blast furnace has a fire pot composed of three rings, with cup joints that are set together with kaolin cement, thus making them gas tight. The gas ring has eight sectional linings that form the inner part of the ring. These linings can be replaced through the feed door without dismounting the furnace. The radiator is constructed of seamless wrought boiler tubes two feet long. The top and bottom plates of the radiator are of heavy cast iron, the whole being encased in an open hearth steel shell. The tubes fit over the collars about ¾ inch high on top and bottom radiator plates, and form a cup joint. These joints are packed with asbestos cement.

MONITOR HOT AIR FURNACES AND COMBINATION HEATERS.

The Keith Furnace Co., Des Moines, Ia., send us their handsome 1901 catalogue of the Monitor furnaces. This catalogue is printed in two colors and shows a view of this firm's molding room, a cozy nook heated with a Monitor furnace and other attractive half tone cuts.

The Monitor all cast furnace has a solid core cast return flue radiator. The smoke pipe collar can be placed in any position. The only joint connecting the radiator with the body section is a deep cup joint set with asbestos cement allowing a large open space. The body or feed section has a large exposed surface and the air as it flows from below rises, coming in contact with the entire heated surface, passing through and around the return flue radiator and becoming thoroughly heated before reaching the hot air pipes. The fire pot is made of two heavy solid parts with a cup joint exactly in the center. This construction relieves it of the strain caused by the expansion and contraction of the iron as it alternately heats and cools, at the very point where it is required.

The fire pot has a smooth surface on the inside and is of such form as to prevent the ashes from accumulat-

ing on the sides. The Monitor wood furnace in portable and brick set form has a corrugated cast iron fire box. The radiator or drum is of heavy steel plate, gas tight, all surface being exposed. The air circulates through and around it, thereby utilizing the heat.

The products of combustion are taken from the fire box through an opening at the rear end, which is connected to the steel radiator traveling the entire length of the radiator and making an indirect draft.

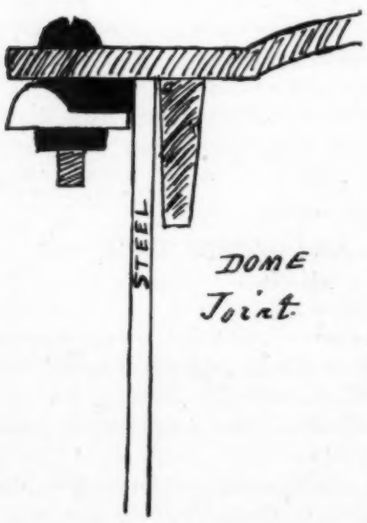
The Monitor hot water and hot air combination heater has as its great feature indirect hot water radiation. One of these catalogues will be furnished the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

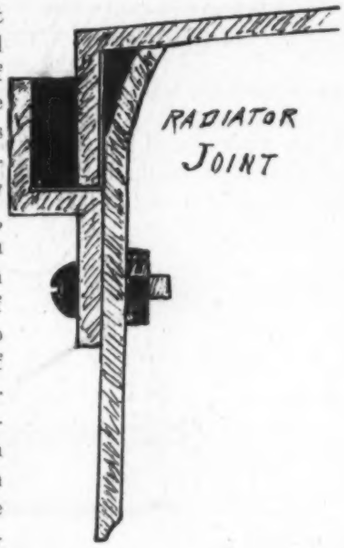
WISCONSIN FURNACE.

The Phipps Furnace Co., 135 Oneida St., Milwaukee, Wis., are makers of the well-known Wisconsin furnaces. The ash pit and grate are alike in all series of

No. 342 Wisconsin Furnace.

this furnace. The ash pit proper rests upon a cast iron base, which engages the ash pit sections, holding the latter firmly in place and making a tight joint. The ash pit is very large and deep, allowing plenty of room for the accumulation of ashes and obviating the liability of burning out the grates. It is carried up in front forward from the point of intersection of the fire pot to the front of the section, allowing the free use of an ordinary shovel and exposing to view when the ash pit door is opened the grate and entire interior of the ash pit. By means of this improvement, it is claimed, the ash pit can be more easily and thoroughly cleaned of ashes than where the old style low door is used. The grate consists of extra heavy sexagonal shaped bars, hung parallel to each other, running from the top and rear of the ash pit section to front of same. Two of these bars are provided with shanks, extending to the ash pit door through openings in which the shaker, which engages these shanks, is placed. All shaking is done with the doors closed. A radiator section surmounts the fire pot. This is a large dome, and around its edge are cast a number of ovaling flues, which spread the products of combustion evenly over the surface of the upper or "V" section.





The 342 Wisconsin furnace is now made with a sectional fire pot. There is an extra packing cup at joint of radiator to top. The upper dome head and ring and the lower ring are of cast iron, while the body is of heavy sheet steel. The construction of the joints is shown in the accompanying cuts, and is such as to make them absolutely gast tight.

TINNERS AS ACETYLENE GAS MEN.

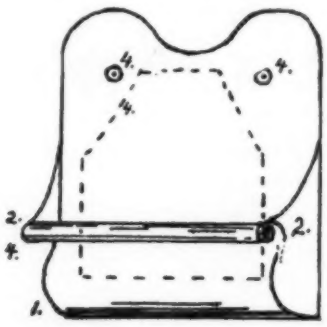
George Landis Wilson read a paper on "The Future of Acetylene Lighting," before The International Acetylene Association convention at Buffalo, N. Y., recently in which he said: "The satisfaction derived by a user of acetylene from his apparatus is very closely related to the expertness of the man who attended to his installation. This being the case, it is natural that much of the best work has been and will be done by traveling representatives of manufacturers. However, such methods are unduly expensive, and it behooves the continuously successful builder of generators to secure and retain local representatives who will qualify themselves to handle the business. Specialists are best, but circumstances limit their usefulness for some time to a relatively small number of points. The established dealer who is qualified to install generators and pipe buildings for many years must be the outlet for the manufacurer. Plumbers, fitters, tinners and machinists with a fair mechanical equipment and reasonable amount of energy will discover in acetylene a source profit and reputation if they choose reliable generators from established responsible manufacturers who will properly guarantee their goods. In the face of such competition the fakir must go back to the gold brick business and the experimental tinker cannot secure a hearing."

Tinshop.

DESIGN FOR A BEER DRIP.

TO THE AMERICAN ARTISAN.

A pattern for a beer drip is enclosed herewith. I have made several like it and they seem to fill the bill all right. Across the bottom and top 1 and 2 double-seam copper reversed so that planished side will be out-



side when formed up at 4. Use nickel-plated hingepin tips (the dotted lines are a piece of galvanized iron) to keep it from buckling. "L. E. B."

Springfield, Wis., June 24, 1901.

SHOULD USE A GRAVEL ROOF.

TO THE AMERICAN ARTISAN.

In response to a recent query in your paper from F. H. Bowen, Roachdale, Ind., asking for a method of stopping a three-ply tarred felt roof from leaking, would advise him to use a gravel roof. If he desires to put one of these gravel roofs on he should follow these directions:

Give the roof a pitch of about one inch to the foot. The roof-boards should be laid as even and smooth as possible, and free from large cracks and knotholes. To have the boards run through a mill and evened to a thickness would doubly pay the owner in the durability of the roof. Commence at the eaves by ripping a piece of felt into one-third and two-third parts in width—first putting down the one-third, then the two-thirds piece, then full-width sheets, the three edges coming even with the eaves. Then lay up the roof, same as in shingling, lapping the felt two-thirds at each layer and leaving one-third exposed, cementing each sheet together with the composition, thus making the felt three thicknesses, and all cemented together with the composition.

The felt is not stuck to the boards, but is held to its place by roofing tins. These are put up and down the roof, about eight inches apart, and about four feet between the rows, nailed down with shingle nails.

At the eaves and ends of the building, if there are no walls above the level of the roof, use lath, nailing them fairly down; and where there are walls, chimneys or skylights, the felt should run up their sides about an inch or half-inch, and a lath or strip of wood nailed into the corner, and when the composition is applied these corners should be heavily coated. In working around chimneys and skylights, it is a good plan to use an extra thickness of felt.

After the felt is all put on and secured, commence at the top of the roof to apply the composition and gravel by first pouring a strip or ridge of gravel up and down the roof; then as fast as one man mops on the composition, another scrapes the gravel into it while the composition is hot. The composition is put on with a mop as plentifully as possible without having it run, taking a strip down the roof as wide as one can conveniently swing a mop.

Care should be taken in getting on the felt as smooth and even as possible. The better the felt is laid, the better the roof. The composition cements together and holds the gravel. The composition should be heated to as near a boiling point as possible, BUT NOT ALLOWED TO BOIL. In case the felt should get broken, the holes should be patched before putting on the composition and gravel.

It takes about 50 pounds of felt, 100 pounds of composition, one-fifth of a yard of gravel to the square of 100 feet. The gravel should be free from sand and loam, and from the size of a kernel of wheat to that of a hickory nut, or as near as possible.

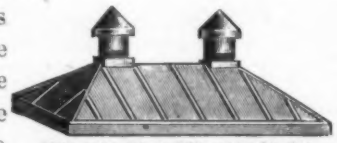
In brick buildings, where the walls come above the roof, it is a good plan to have scantling inserted in the wall instead of one course of brick, the lower edge of the scantling being even with the upper edge of the roof-boards.

This gives a secure fastening for the felt, which is nailed into it through a lath and prevents any possibility of a leak.

Racine, Wis., July, 2, 1901. S. J. R.

ILLINOIS METALLIC SKYLIGHT.

The accompanying cut shows the Illinois metallic skylight, manufactured by J. H. Jones, Lock Box 33, Streator, Ill. A special feature of this skylight is the cap which lies close to the glass, making the work water tight. At the same time the cap can be easily removed, should it be necessary to replace a broken glass. If by any possibility water should get under the cap, ample provision has been made to pass the same out again at the lower end into the gutters below. Condensation is provided for in all cases. These skylights are made either from galvanized iron or copper, as desired, using this firm's regular ribbed skylight glass.



Illinois Metallic Skylight.

AMALGAMATED ASSOCIATION DECLARES A STRIKE.

Like a thunderclap in a clear sky comes the announcement that the Amalgamated Association of Iron, Steel and Tin Plate Workers have declared a strike against the American Sheet Steel Association and the American Steel Hoop Co.

The situation is rather unique, inasmuch as the two companies agree to the demands of the association in every way pertaining to wages, etc., in the mills over which the Amalgamated Association has jurisdiction.

The officials of the Amalgamated Association argue that inasmuch as the American Tin Plate Co. and the Republic Iron and Steel Co. have signed the tin plate and bar iron scales the other two combinations should do likewise. They, however, lose sight of the fact that at all the plants of the two combinations the association has lodges, which is not the case with the American Sheet Steel Co. and the American Steel Hoop Co.

The demands of the association amount practically to a request for the officials of the two companies to establish association lodges at their plants where the Amalgamated Association officers after years of labor have been unable to enlist the interest of the men in their organization. The outlook is that there will be a bitter and protracted strike.

BIG METAL FIRM CHANGES STYLE.

J. M. & L. A. Osborn, Cleveland and Columbus, have changed their style to the J. M. & L. A. Osborn Co. This change is announced to the trade in a dissolution notice sent out under cover of July 1st. This new firm assume all partnership liabilities of the old partnership. Their line is a very extensive one, and includes tin plate, iron, copper, tinware and tinners' supplies, brazers, enameling ovens, vulcanizers, gasolene torches and supplies.

This firm's Cleveland plant is located on the viaduct, where they have a building of irregular shape, six story and basement of an average depth of 100 feet. They have 100 feet frontage on the C., C., C. & St. L. railroad, and are connected by sidings with every railroad in Cleveland. They are also adjacent to the docks of the D. & C. and C. & D. lines of steamers. Their capitalization is $200,000. Jas. M. Osborn is president and L. A. Osborn is secretary and treasurer.

In their viaduct location they are installing two immense electric elevators, thus insuring a quick delivery of goods to their respective delivery stations. They are rearranging the top floor on the viaduct, level, so as to provide a capacious delivery station for their city trade. On this same level they will locate a salesroom, in which their entire line will be so sampled as to call the attention of their customers to everything they sell, and at the same time facilitate the taking of orders. Their offices will be arranged in such up-to-day style, comfort and convenience as to make it a pleasure to dealers to visit them.

NOTES AND QUERIES.

IRON CLAD MFG. CO.

From A. A. Peterson & Co., Maple Park, Ill.

Would like address of Iron Clad Mfg. Co.

Ans.—Cliff & Johns streets, New York.

MANUFACTURERS OF NEEDLE VALVES FOR GASOLENE FURNACES.

From Central Mitre Co., Indianapolis, Ind.

Would like addresses of brass manufacturers who make needle valves for gasolene furnaces.

Ans.—Geo. M. Clark & Co., 72-76 Lake street, Chicago; Schneider & Trenkamp Co., Cleveland, O.; Monarch Vapor Stove & Mfg. Co., Mansfield, O.

MOULDS FOR CASTING JOINTS.

From H. L. Leaper. Cloquet, Minn.

Would like name of firm selling moulds for casting joints to take the place of wiped joints on lead pipe?

Ans.—J. B. Clow & Sons, 222 Lake St., Chicago.

TIN SIGNS.

From Thomas Dalton, Chicago.

Where can I get advertising done on small tin plates?

Ans.—Chas. W. Shonk & Co., 629 N. Wood St., Chicago.

ALUMINUM COATING FIRM.

From "Reader," Quincy, Ill.

What is the address of the firm who used to be near Chicago who make aluminum coated sheets?

Ans.—Steel & Iron Metal Coating Co., Connellsville Pa.

KEY RINGS.

From "Reader," Cincinnati, Ohio.

Where can I buy key rings?

Ans.—Billings & Spencer Co., Hartford, Conn., New England Novelty Mfg. Co., Boston, Mass.; Smith & Egge Mfg. Co., Bridgeport, Conn.; L. T. Snow, New Haven, Conn.; A. T. Wall & Co., Providence, R. I.; R. Wallace & Sons Mfg. Co., Wallingford, Conn.

ITEMS.

Geo. Neussel is a new Jackson, Minn., tinner.

B. F. Jennings, formerly interested in the Leechburg Sheet Steel Co., is interested in a new company whi will erect a $50,000,000 independent sheet steel plant at Beavers Falls, Pa.

N. H. Sweeney, W. H. Gore, Phillip Angster and F. W. Barnes are the incorporators of the Western Enameling Works, Dubuque, Ia., capitalized at $100,000, who succeed the Dubuque Enameling Works. This new firm is a virtual reorganization of the former one.

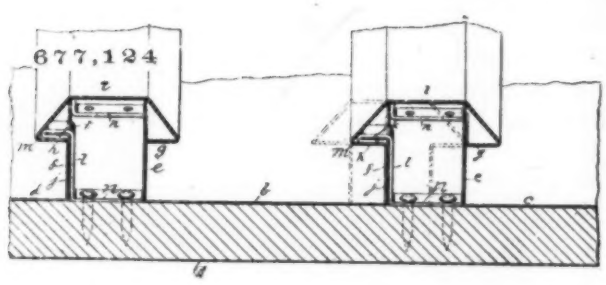
A press dispatch from Wheeling, W. Va., states that P. F. Albinger, Joseph Albinger and John Green, the former a prominent tinsmith and the latter two employes of the Wheeling Corrugating Co., have been arrested. It is alleged they stole large quantities of tin plate from the company's plant.

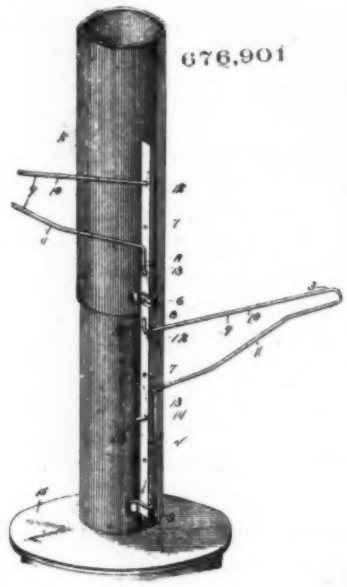
Ed. T. Burgess, of the Burgess Soldering Furnace Co., Columbus, O., has left the Mecca of Buckeye Solons to join with his family at Columbus Beach, Indian River, Mich. For the next ten weeks Mr. Burgess will get up at 3:55 a. m., and try to persuade the foxy Indian River bass that a rubber frog flicked through the water is the "real" thing and not the "reel" thing. This occupation, we are told by enthusiastic Waltonians, is a splendid specific for dyspepsia, overwork, etc. At any rate it seems to have agreed with Mr. Burgess in the past.

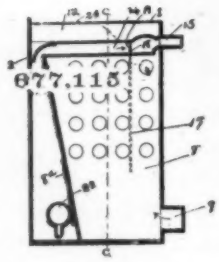
TWIXT CUP AND LIP.

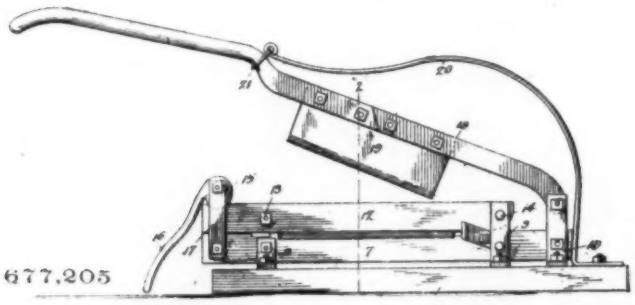
"I suppose people around here raise their own vegetables?" "Some do; others merely plant them." —Puck.

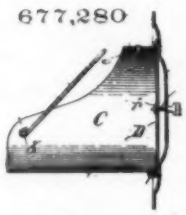
New Patents.

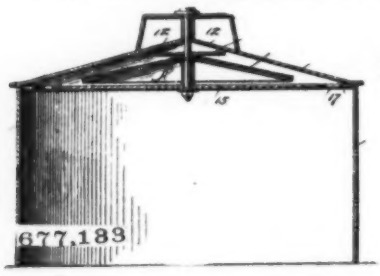


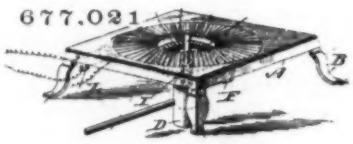












676,901.—Stovepipe attachment. Jacob Luft and Ezekiel J. Burns, Almena, Kans.

677,021.—Gas stove. Arthur G. Cramer, Philadelphia, Pa.

677,100.—Coal scuttle. Louis F. Oppold, Sterling, Ill.

677,115.—Gas heating stove. Edward T. Burgess, Columbus, Ohio.

677,124.—Roofing. Thomas P. Flanagan, Brooklyn, N. Y.

677,133.—Bake oven for gas or gasolene stoves. Ryerson W. Hilliker, Kansas City, Kans.

677,205.—Metal shears. Harry J. Hackett, Yoakum, Tex.

677,280.—Flue stop.—Calvin F. Schnee and Thomas A. Nichols, Stronghurst, Ill.; said Schnee assignor to said Nichols and John W. Rankin, same place.

FRENCH LICK SPRINGS.

In the highlands of Orange County, Indiana, on the Monon Route. Best mineral water on earth. Ample hotel accommodations. Two trains daily, through sleeper every night. City ticket office, 232 Clark street.

MAX ADELER'S NEW STORIES.

Twenty-five years ago, when "Elbow Room" and "Out of the Hurly-Burly" were the successes of the day, Max Adeler suddenly ceased writing. For a quarter of a century he was proof against the blandishments of editors, but within a few weeks he has completed a new series of humorous stories which show him at his best.

Tales of Old Turley, which will appear in early numbers of The Saturday Evening Post, are wonderfully droll stories of the quaint characters in an old-fashioned country town before the war.

Local politics, school committees, fights, church squabbles and women's clubs lend themselves admirably to Max Adeler's humorous touch, and form the basis of some of the cleverest stories that have been written for many a day.

KIN YEZ SWIM?

A learned man, who knew so much it hurt him, once hired a boatman to row him across a wide river.

On the way across he began to interrogate the boatman:

"Friend, do you understand metaphysics?"

"Divil a bit," said the boatman, and kept on rowing.

"Then one-fourth of your life is lost. Do you know rhetoric?"

"Not at all."

"Then half your life is lost. Have you ever studied mathematics?"

"No."

"Then three-fourths of your life is lost."

Just then the boat struck a snag and upset.

"Kin yez swim?" asked the boatman.

"Alas, no," replied the philosopher.

"Sure, thin, the whole ave your life is lost."

A man may have plenty of experience, the very best of goods, and the necessary experience, and then be unsuccessful in business for the want of the right kind of advertising.—Ex.

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Horrigan Supply Co.... 48

GOOD ADVICE.

"My son," said the fond but wise parent, "you are leaving me to go out into the world. I have nothing to give you but advice. Never tell a lie. If you wish to put one in circulation, get it published. A lie cannot live, but it takes one a blamed long time to fade out of print.

"Always read your contract. A man might consider he was getting a sinecure if he were offered a position picking blossoms off a century plant, but, you see, he wouldn't have a remunerative occupation if he were paid on piece work.

"Be not overcritical. Even the most ordinary sort of a genius can tell when the other fellow is making a fool of himself.

"Remember that the young man, like the angler's worm, is rather better for being visibly alive.

"Be careful in the choice of your surroundings. Environment will do a great deal for a man. For example, flour and water in a china jug is cream sauce; in a pail on the sidewalk it is billstickers' paste.

"Don't forget that there's a time for everything and that everything should be done in its proper time. Never hunt for bargains in umbrellas on a rainy day.

"You may make enemies. If you know who they are don't mention them. Silence is golden: it saves the money that might otherwise be spent in defending a libel suit. If you don't know who they are—well, abuse lavished on a concealed enemy is like charity indiscriminately bestowed. It's a good thing wasted." —New York Commercial Advertiser.

THE DEMAND FOR SHINGLE NAILS.

As will have been noticed by our market reports lately, a brisk trade has been doing in cut shingle nails. We are told by those in the trade that this is not the result of any impulsive and sudden demand; it is due to a reaction which has been gradually developing in favor of cut nails for shingling purposes.

It is said that after long experience it has been found that the cut shingle nail is less subject to impairment by rust than the wire shingle nail. In the United States the wire nail manufacturers have been trying to overcome this objection by galvanizing their shingle nails. But there arises another difficulty, for galvanizing, while it increases the wearing property of the nails, also increases their cost, and this enhances their price to such an extent as to put them out of serious competition with the cut article.

Owing to the increasing demand, together with the brief temporary closing down of one of the makers, the supply of cut shingle nails in Canada fell below the demand, but this difficulty no longer exists.—Canadian Hardware.

Trade Report.

SCREWS.

The American Screw Co. are making the following discounts on their goods: Flat head oval screws, 90 per cent off; round and oval head iron screws, 87½ per cent off; drive screws, 90 per cent off; flat and round head iron or brass machine screws, 50 per cent off; fillister head iron or brass machine screws, 40 per cent off; Norway Philadelphia tire bolts, 82½ per cent off; Eagle Philadelphia tire bolts, 85 per cent off; Bay State tire bolts, 77½ per cent off; flat and round head stove bolts, 77½ per cent; stove rods 65 per cent; sink bolts, 77½ per cent; rivets, tinners', coopers,' etc., 70 per cent; hand rail screws, 60 and 10 per cent.

WHITE LEAD IN OIL.

In lots of 500 lbs. and over white lead paint in oil is 6½c per lb., and in lots of less than 500 lbs. it is 7c per lb.

LINSEED OIL.

On July 1st linseed oil went up 7c per gallon. City raw is 77c in lots of 5 barrels or more, and 78c in lots of less than 5 barrels.

SPIRITS TURPENTINE.

The turpentine market has been on the decline. Southerns are 36½c to 37c, and machine made barrels are 37c to 37½c.

GLASS.

Glass in carload lots is 85 and 5 per cent off f. o. b. factory, and in smaller quantities it is 80 and 20 per cent off.

WIRE NAILS.

Shipments in wire nails are prompter than formerly. Consumption is heavy. Carload lots are $2.45, and smaller lots are $2.55.

CUT NAILS.

Quotations on cut nails are $2.35 for small lots.

BARB WIRE.

Carload lots of painted barb wire are $2.75, and smaller lots are $2.85. Galvanized barb wire in carload lots is $3.05, and smaller lots are $3.15.

COPPER.

Was dull but unchanged at 16¾c for lake and 16⅝c for electrolytic. Arrivals at New York were 228 tons bars from Mexico. The London market was 11s 3d lower, closing easy at £67 8s 9d for spot and £67 18s 9d for futures.

TIN.

The New York market was stagnant and closed easy at 28¼ for spot, with futures lower and weak. Quotations on call at the New York Metal Exchange were: Straits or Malacca—Spot, bid, 27.70; asked, 28.10; July, bid, 27.70; asked, 28.10; settling price, September, asked 27.00; settling price, 26.50; October, asked, 26.50; settling price, 25.00.

The London spot market was 10s higher, closing at £129, but futures lost £2. The English market is at present undergoing strong manipulation. The Singapore quotation showed a decline of £1 10s. A special London cable to the New York Metal Exchange gives Straits shipments for the second half of June as follows: To United States, 520 tons; to London 1,100 tons; to European continent, 370 tons; total, 1,990 tons; first half of June, 2,340 tons, making total for month 4,330 tons, against 3,880 against June, 1900.

IRON AND STEEL.

There is no change in prices anywhere along the line and general conditions in iron and steel markets are favorable. Little or no apprehension is felt as to the strike troubles, which there are already prospects may soon be at an end. Moreover, this is a season when many mills close down anyway. The Bessemer iron market continues to rule strong owing to the recent heavy buying for the present month, and it is said that furnaces in the Mahoning and Shenango valleys have less than 20,000 tons of Bessemer available and unsold for the next month.

Pittsburg advices say: The furnace operators are inclined to ask a higher price for delivery after August than now prevails, and it is predicted that the price will be fixed at $16.50 to $16.75 per ton, delivered here. Forge iron is in better demand at $14 per ton, delivered Pittsburg, and sales of one 3,000-ton lot have been made at this price for delivery up to September. Foundry iron continues quiet.

LEAD.

This market continues quiet but firm at 4⅜c. St. Louis reported a steady market, with sales of 100 tons soft Missouri at 4.30c; chemical, 4.35c. Soft Spanish lead was unchanged in London at £12 8s 9d and English lead at £12 15s.

SPELTER.

A very fair business is doing in spelter and the market is about steady at unchanged quotations of 3.95@4c. There is no lack of offerings. Some producers are reported shy of June spelter. The St. Louis market was steady, sales of 50 tons being reported at 3.82c. The London market closed at 10s lower.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	10x14	$7 75
IX	10x14	9 50
IC	12x12	7 75
IX	12x12	9 50
IC	14x20	7 75
IX	14x20	9 50
IXX	14x20	10 00
IXXX	14x20	11 00
IXXXX	14x20	12 60
IC	20x28	15 50
IX	20x28	17 25
IXX	20x28	19 00
IXXX	20x28	20 75
IXXXX	20x28	22 50

COKE PLATES.

Cokes, 180 lbs	IC	20x28	9 70
Cokes, 200 lbs	IC	20x28	10 00
Cokes, 216 lbs	IC	20x28	10 30
Cokes, 216 lbs	IX	20x28	12 25

PIG IRON.

Lake Sup. Charcoal	$17 50@$18 00
Local Coke Fdy No. 1	16 00@ 16 50
Local Coke Fdy No. 2	15 50@ 16 00
Local Coke Fdy No. 3	15 00@ 15 50
Local Scotch Fdy No. 1	16 00@ 16 50
Local Scotch Fdy No. 2	15 50@ 16 00
Local Scotch Fdy No. 3	15 00@ 15 50
Southern Coke No. 1	15 15@ 15 65
Southern Coke No. 2	14 6 @ 15 15
Southern Coke No. 3	14 15@ 14 65
Southern Coke No. 4	13 90@ 14 15
Southern No. 1 Soft	15 40@ 15 55
Southern No. 2 Soft	14 90@ 15 15
Southern Silveries	15 45@ 15 50
Jackson Co. Silveries	17 00@ 17 50
Ohio Strong Softeners	16 50@ 17 00
Alabama Car Wheel	21 00@ 22 05
Malleable Bessemer	16 00@ 17 00
Coke Bessemer	17 50@ 18 50

BLACK SHEET STEEL.

¼ in. 3-16in. Nos. 8 and 10. per lb.	$3 40
No. 12 per lb.	3 45
No. 14 per lb.	3 50
No. 16 and 18 per lb.	3 55
No. 20, 22, 24, 25 and 26 per lb.	3 50
No. 27 per lb.	3 60
No. 28 per lb.	3 70

SMOOTH STEEL.

	per lb.
Wood's Smooth Steel, 15-17	$3 35
" " " 18	3 45
" " " 20	3 55
" " " 22-24	3 65
" " " 25-26	3 75
" " " 27	3 85
" " " 28	3 95

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON.

Galvanized Iron ..... 70% off

SOLDER.

Commercial 20c

SHEET ZINC.

600 lb. Casks, base ..... 7¼c per lb.

COPPER.

Copper ..... base, 21c

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name high figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES—CARPENTERS'.

Hunt's	25%
White's	12½%
Coopers'—Barton's	12½%
White's	12½%
Ship—Barton's	12½%
White's	15%
Hunt's	25%

AGATE NICKEL STEEL WARE.

Agate Nickel Steel Ware ..... 35&10%

AMMUNITION

CAPS, PERCUSSION—per 1000—

F L Waterproof, 1-10s	50c
G D	40c
Eley's	52c

CARTRIDGES.

Peters Rim Fire Ctgs	50&3%
Peters Cent Fire, Pistol & Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs	15&5%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.	
Peters Blank Ctgs. 22 cal	10&10%
Peters Blank Ctgs. 32 cal	10&10%
Peters B B Caps, Round ball	$1 18
Peters B B Caps, Conical ball	$1 90
U. M. C. Rim Fire Ctgs	50&3%
U.M.C. Cent. Fire, Pistol & Rifle	25&3%
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
U. M. C. Blank Ctgs. 22 & 32 cal	10%
U. M. C. Blank Ctgs. 38 cal	50-10-10%
U. M. C. B B Caps, Round Ball	$1 75..25&10%
U.M.C. B B Caps, Con. Ball	$2 00 net
U. M. C. Rim Fire Shot Ctgs	50&15&3%
U. M. C. Cent. " " "	25&10&3%

PRIMERS.

Berdan Primers	$1 00
Peters Primers	1 10
U. M. C. Primers	1 08
Winchester Primers	1 08

SHELLS.

Peters Empty Paper Shells, 10 and 12 gauge. League	25&5%
Peters Empty Paper Shells, 16 gauge. League	20&5%
Peters New Victor Nitro shells	15%
Ideal	33⅓&10%
Peters Loaded Shells. League and Semi-Smokeless	40&5%
Peters New Victor Loaded Shells, with King's Smokeless	40&10&10%
Ideals Loaded with Kings Smokeless	40&10&10&5%
U. M. C. New Club, 16 guage	20&10%
U. M. C. New Club 10 & 12 gauge	33⅓&5%
U. M. C. New Club	33⅓&5%
U. M. C. Nitro	18%
U. M. C. High Base	18%
U. M. C. Trap	33⅓&10&7%
Winchester Blue Rivals / Winchester Yellow Rivals	20%
Winchester Repeater	18%
Winchester Leader	33⅓&10&7%
U. M. C. Loaded Shells. Black Powder / Winchester Loaded Shells, Black Powder	40&5%
U. M. C. / Winchester — Smokeless	40&10&10&5%

GUN WADS—per 1000.

Peters Gun Wads	20&5%
U. M. C. Gun Wads	20&5%

POWDER.

King's Quickshot Powder; Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.

King's Semi-Smokeless	20&5%
King's Smokeless	25, 20&10%

Austin Quickshot Powder. Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.

Dupont Smokeless, Sporting	25, 20&10&10c

SHOT.

Drop shot, sizes smaller than B, 25 lb bags, per bag	$1 35
Drop shot, B and larger sizes, 25-lb bags, per bag	1 60
Buck Shot, 25-lb bags, per bag	1 60
Chilled Shot, 25-lb bags, per bag	1 60

ANVILS.

Hay-Budden, 70 to 84 lbs	10c per lb
Hay-Budden, 85 to 150 lbs	9c per lb

AUGERS AND BITS.

Snell's Boring Mach. Augers	60&10&5%
Snell's Car Bits, 12-inch twist	40%
Jennings' Pattern Auger Bits	50&10%
Russell Jennings' Augers and Bits	25&10%
Ship Augers, L'Hommedieu Bits	15%
Irwin	50%
Climax Bits	60&10%

AWLS.

Brad, handled per doz.	$ 35
Brad, shouldered, assorted 1 to 4 per gr.	2 00
Brad, shouldered, assorted 1 to 6 per gr.	2 50
Peg, Pat. per gr.	60
Peg, shouldered per gr.	1 00
No. 1, Scratch, handled per gr.	4 80
No. 5, Scratch, socket per doz.	6 00

AXES.

Lippincott	per doz	6 50
Mann	"	6 50
Second quality	"	6 00
Beveled axes, add	"	50
Broad—		
Peerless can patt	"	28 50
Hunt's		30
White's		12%
Hand—		
Hunt's		40
White's		12%
Ship—		
White's		12%

AXLES.

Common iron, long arm, sq. bed	5¼
Concord iron, long arm, sq. bed	6¼
Concord express, long arm, steel, square bed	6¼
Coach shape on above, ex. per. lb.	½
Short arms on above, extra per lb.	2
Welded axles on above, ex. per. lb	1½
Half Patent, steel, Nos. 7 to 14	70
Half Patent, steel, Nos. 19 to 22	70
Extra, coach shape, 1¼ & smaller per set	15
Extra, coach shape, 1¼ 1½, per. set	30
Extra, coach shape, l'g'r, per. set	$1 00
National Wrought Steel Tubular, Self Oiliug—	
Standard Farm (1 to 5) and Special Farm (A1 to A5) less than ten sets	20%
Over ten sets	25

BEAMS—SCALE.

Scale Beams, List Jan. 12, 82	35%
Frary's	40%
P. S. & W.	30%

BELLOWS.

Blacksmiths	70%
Hand, 6½ in. per doz.	$4 50
Molders', 10 in. per doz.	9 00

BELLS.

COW.

Ordinary Goods	70&10%
High Grade	60&10%
Jersey	75&10%
Texas Star	50&10%

DOOR.

Abbe's Gong	45%
Barton Gong	55%
Home, R & E. Mfg. Co.'s	55&10%
Lever and Pull, Sargent's	20&10&10%

HAND.

Hand Bells, Polished	60@60&10%
White Metal	55@55&10%
Nickel Plated	50@50&10%
Swiss	60%
Silver Chime	33⅓@33⅓&10%

MISCELLANEOUS.

Farm Bells	lb. 2¼ to 2½c
Steel Alloy, Church and School	50&10&5@60%
Wilmot & Hobbs Mfg. Co., Gongs	70%

BIT STOCK DRILLS.

Standard List ..... 60@60&5%

BLOCKS

Common Wooden	70%
Eddy Steel Tackle Blocks	60⅔&5%

BOLTS.

CARRIAGE, MACHINE, ETC.

Common, list Jan. 30, 95	65&10%
Norway Iron, $3.00, list Oct. 7, '84	7 &10%
Bolt Ends, list Jan. 30, '95	50x10%
Machine, list Sept. 20, '99	65&10%

DOOR AND SHUTTER.

Ives' Patent Door	60%
Wrought Barrel, Standard list.	7 &10%
Wrought Flush	40&10%
Wrought Square, Standard list	65%

STOVE AND PLOW.

Plow	40&10%
Stove, list December 28, 1899	70to70&10%

TIRE

Common, list Dec. 28, '99	70
Eagle Philadelphia	72½%
Norway	75%

BORING MACHINES.

Jenning upright without Augers..$2

BOXWOOD RULES.

No. 4	$11 00	per doz
" 12	16 00	"
" 18	6 00	"
" 26	11 00	"
" 27	13 00	"
" 29	4 50	"
" 66	10 00	"
" 66½	10 00	"
" 67	6 00	"
Boxwood		80&10%
Ivory		40&10%
Lufkin's Steel		50&10%

BRACES.

Barber's	50&10%
Common Ball, American	$1 50
Fray's Genuine Spofford's	60%
Fray's No. 307 to 322	40&5%
Fray's No. 508 to 522	50%

BRACKETS.

Cast Iron Plain	50&10%
Wrought Steel	70&10 @ 75%
Bradley's	75 @ 75&10%

BROILERS.

Wire Goods Co. 75%

BUTTS.

Bright Butts, Nos. 800, 802, 804, 806, 808, 810, 814, 816, 818, 820, 854	70%
Bright Butts, Nos. 826, 828, 829, 830, 832, 834, 836, 838, 840, 842, 843, 844, 845, 846, 848	70%
Bright Butts, Nos. 822, 822½, 823, 823½	70%
Japanned Butts, Nos. 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 726, 727, 728, 729, 730, 731	70%

CAGES—BIRD.

Enameled	40%
Brass 1200 series	33⅓%

CASTERS.

Bed	60&10&5%
Plate Casters	60&10&5%
Martin's Patent (Phoenix)	50&5%

CEMENT.

Asbestos Furnace Cement, 5 and 1 lb. Cans. Per lb	5c

CHAIN.

American Coil, Cask lots:

3-16	¼	5-16	⅜	7-16	½	9-16
7.45	5.55	4.55	3.70	3.55	3.45	3.40

⅝ ¾ ⅞ to 1 1⅛ to 1¼ inch
3.40 3.35 3.35c. per lb. 3.60 per 100 lbs
Less than Cask lots add 25c.

German Coil, list July 24, '97	60&10&10%
German Halter Chain, list July 24, '97	60&10&10%

Traces, Western Standard: 100 pair

6½—6-3, Straight, with ring	$26.00
6½—6-2, Straight, with ring	27 00
6½—8-2 Straight, with ring	31.00
6½—10-2, Straight, with ring	34.50

Add 2c per pair for Hooks.
Twist Traces 2c. per pair higher than Straight Link.

Trace, Wagonand Fancy Chains Eastern list	60@60&5%
Jack Chain, lis July 10, '93 Iron	60@60&10%
Brass	60@60&10%

Safety Chain.....70@70&10%
Gal, Pump Chain.....lb. 4½@4¾c
Covert Sad. Works:
Breast, Hitching and Rein Chains.....50%
Covert Mfg. Co.:
Breast.....35&2%
Halter.....35&2%
Heel.....35&2%
Rein.....35&2%
Stallion.....35&2%
Oneida Community:
Eureka Coil and Halter...60@60&5%
Niagara Coil and Halters 60@60&5%
Niagara Cow Ties..45&5@45&10&5%
Am, Coil and Halters..50&10&5@60%
Am. Cow Ties.....35&5@40&5%
Wire Goods Co.:
Dog Chain.....60&10%
Universal Dbl-Jointed Chain 50%

CHALK.

Blue.....per gross 60c
Red..... " 50c
White..... " 45c

CHALK LINES.

Chalk lines.....per doz. $2 50

CHISELS.

Mix..... } 70&5 to 70&10%
Witherby..... }

CHISELS.

Box.....20%
Tinners.....40%
Cold, per lb.. regular qual.....20%
Cold, per lb., special qual.....33%
Corner.....66⅔%
Firmer, American..... 20, 10&10%
Barton's.....20%
Butcher's.....40&10%
Mortice, Butcher's.....40&10%
Socket, Firmer.....70%
Framing.....70%
Turning, Barton's.....20%
Butcher's.....50%
Beveled.....20%

CLAMPS.

No. 25 Adjustable.....50&10 to 60%
Carriage Makers.....50&10&5%

CLEANERS.

Pot.....per doz $1 10

CLEAVERS.

Beatty's.....dis 40
White's..... " 15

CLIPPERS.

E. H. Hotchkiss Horse Clippers
No. 10.....per doz $18 00
No. 30..... " 15 60
No. 22..... " 13 80
No 20..... " 13 20
No. 8..... " 10 80
.H. Hotchkiss Toilet Clippers
No. 1.....per doz 9 60
No. 101..... " 10 80
No. 201..... " 10 80
No. 300..... " 13 20
No. 500..... " 15 00

COFFEE MILLS.

Enter. Mfg. Co., list Jan. 17, '98....25%
Parker's.....50&10%
Arcade.....60&10%

CORKSCREWS.

Howes..... 25 & 22%
Humason & Beckley..... 40 & 10%
Empire..... 40%
Walker's..... net
Williamson's Regular..... 40%
Williamson's Forged Worm 40%

DOG COLLARS.

Pope & Stevens' List:
Brass (full Assortment).....net price

DOOR CHECKS.

Blount.....30%
Eclipse.....30%
Corbin.....30%

DRILLS AND DRILL STOCK.

Common Blacksmith's Drill .....$1 50@$1 60
Bench Drills, Stearns' .... 5 50& 6 00
Blacksmith's Self-feeding, each, ...$5 00&$7 00
Breast, Millers Falls, each...$3 00 20%
Godell Automatic Drills, $12 00to$15 00

EGG BEATERS.

Standard Co.:
No. 5 Steel Handle Dover per gross.....$ 6 50
No. 10 Cast Handle Dover pr gr 8 00
No. 10 Steel H'ndle Dov'r pr gr 8 00
No. 15 Extra Heavy Steel Handle per gr 15 00
Rival per gr..... 10 00
Taplin Mfg Co.:
No. 50 Small Family size pr gr 6 50
No. 100 Regular Fam size pr gr 8 00
No. 102 Regular Family size tinned pr gr..... 9 50
No. 150 Large Fam size pr gr.. 15 00
No. 152 Large Family size tinned pr gr..... 17 00
Lyon's Standard size per doz.. 1 75
Wonder (S. S. & Co.) per gr.... 7 50

FASTENERS, BLIND.

Zimmerman's.....50&10%

FAUCETS.

Standard Metal Key.....25%
B. & L. B. Co.
Redlich's Wood Faucets.
Red Cedar..... } Net Prices.
Oak..... }
Cherry..... }
Cork Lined..... }
Metal Key..... }
Self Measuring:
Enterprise, per doz. $36 00.....40%
Cork Lined.....70&5@70&10&5%
Metallic Key, Leather Lined .....70@70&10%
Red Cedar.....50@50&5%
B. & L. B. Co.:
West's Lock, Open and Shut Key.....50&10%
John Sommer's Peerless Tin Key..40%
" " Boss Tin Key 50%
" " Victor Metal Key..50&10%
" " Duplex Metal Key....60%
" " Diamond Lock.....40%
" " I X L Cork Lined ...50%
" " Reliable " " ..50&10%
" " Common " " 70%
" " Chicago " " 60%
" " O K " " 50%
" " Perfection Cedar.....40%
Star.....60@60&5%
Star, Metal Plug new list... 40@40&5%
Lockport, Metal Plug, reduced list.....60&5%
McKenna, Brass:
Burglar Proof, N. P.....35%
Improved, ¾ and ⅞ inch.....35%
Self Measuring:
Enterprise, per doz $36.00.....40%
Lane's, per doz. $36.00.....40&10%
National Measuring, per doz $36.00.....40%

FILES—Domestic.

New List, Nov. 1, '99:
Black Diamond.....70&10%
Disston's.....75& 5%

Imported.

Stubs list.....5%

FORKS AND HOES.

Coke and Cottonseed Forks....40&5%
Coal Forks.....40&5%
Barn or Ice Forks.....40&5%
Beet Forks.....30&10
Ballast or Stone Forks.....40&5%
Tanners' Forks.....40&5%
Shaving Forks.....40&5%
Potato Scoop Forks.....40%
Oyster Forks.....40&5%
Sluice Forks.....40&5%
Heavy Mill, Manure or Street Forks.....70%
Steel Tar or Asphalt Rakes.....65%
Asphalt Hoes.....65%
Two Tine Hay Forks, Std. Size...65%
3 Tine Hay Forks, Std. Size..60&16⅔%
Four Tine Hay Fork, Std. Size 66⅔%
Socket Four Tine Hay Forks..66⅔&5%
Socket Four Tine Manure Forks...70%
Socket Four Tine Spading Forks .....70&5&5&2½%
Three Tine Hay Header and Baler Forks.....67½&2½%
Four Tine Hay Header and Baler Forks.....66⅔%
Grain or Barley Forks.....70&0%
Four Tine Manure Forks.....70%
Five & Six Tine Manure Forks.....70%
Spading Forks.....70&2½%
Potato Digging Forks.....65%
Stone Picking Forks.....65%
Garden Hoes.....75%
Meadow and R. I. Hoes...75&5&2½%
Sunbeam Meadow Hoes.....75&5&½%
Mortar and Street Hoes.....75&2%
Planter Hoes, Regular Pattern 70&30%
Tobacco Hoes.....75&20%
Cotton Hoes.....70&10&10&5&2%
Rough Fin. Shank Cot. Hoes 75&12½%
Cotton Chopper Hoes....75&10&7½%
Ladies' Cotton Hoes.....75&10&7½%
Malleable Rakes.....70@70&10%
Toy Ladies' and Boys' Hoes.....70&10to70&10&5%
Weeding Hoesand Rakes...70@70&5%
Potato Hooks.....65to65&10%
Hop Hooks.....60&10&2½%
Steel Garden Rakes.....70&2%
Steel Garden Rakes Stamped blank 70%
Turf Edgers.....60&5%
Steel Road Rakes.....65%
Special Mortar Hoes.....40&10&2½%
Harpers' No. 7 Mortar Hoes.....65%
Truck Hoes.....50&10&2%
Hoes.....65%
Special Hoes.....75&'0&2%
Hoe Down Hooks.....75&10&2%
Warren Hoes.....50&10&7½%
Laid Steel Edge Hoes.....25, 5&2%

GAUGES.

Marking, Mortise, etc.....60%
Stanley R. & L. Co.'s Butt & Rabbet Gauge.....Net
S. & H. Cos.....75%

GIMLETS.

Gimlets.....60%

GLASS CUTTERS

Woodward.....33⅓&10%
Red Devil.....33⅓&10%

GLUE POTS.

Tinned.....30%
Enameled.....35%

GLUE.

Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List

GREASE, AXLE.

Fraser's.....Ne
Baum's Castorine.....Net

GRINDSTONE FIXTURES.

Stowell's..... Net
Reading Hardware Co.....Net

HAMMERS.

"Artisan's Choice" A. E. Nail.40&10%
Engineer's and B. S. Hand.....60%
Machinist's Hammers.....60%
Bell Face, A. E. Nail.....50
S. & H. Cos. No. 20 ....per gross. 5 25

HANDLES—IRON, WROUGHT OR CAST—DOOR OR THUMB.

No. 0.....per doz $0 90 } Dis. 33⅓
No. 1..... " 1 00
No. 2..... " 1 18
No. 3..... " 1 35
No. 4..... " 1 50
Bronze iron drop lat., per doz net $1 10
Japanned store door.....net 1 10
Barn door No. 5..... " 1 35
Chest and lift.....dis 50
Wood—
Saw and plane..... " 45
Hammer, hatchet, axe, etc.... " 45
Brad awl.....per gro. 45
Hickory firmer chisel..... } ..25
Apple firmer chisel..... }
Socket firmer chisel..... }
Socket framing chisel..... }
File.....per gro. $2 80
Auger, assorted..... 5 00
Hoe, rake, shovel, etc..... 50
Cross Cut Saw—
Atkins' No. 1.....per pair 28
" No. 3..... " 18
" No. 6..... " 12
Triumph..... " 12
Common loop..... " 10

HANGERS.

Chicago Spring Butt Co.:
Friction.....25%
Oscillating.....25%
Big Twin.....25%
Cronk Hanger Co.:
Loose Axle.....60%
Roller Bearing.....60&10%
Lane Bros.:
Parlor, Ball Bearing $4.00
Parlor, Standard 3.25
Parlor, New Model 2.75
Parlor, New Champion..... 2 40
Barn Door, Standard .....60&10%
Covered .....50&10&10&5%
Special .....60&10%
Lawrence Bros.:
Advance.....60%
Cleveland .....60&10%
Crown.....60%
New York.....60%
Peerless.....60&10%
Sterling 60%
McKinney Mfg. Co.:
No. 2, Standard, $18.....60&10%
No. 1, Special, $13.....60&10%
Stowell Mfg. and Foundry Co.:
Acme Parlor Ball Bearing 40%
Atlas.....50&10%
Badger Barn Door.....50%
Baggage Car Door.....50%
Climax Anti-Friction.....50%
Elevator 40%
Express.....50%
Interstate .....50&10%
Lundy Parlor Door.....50%
Matchless.....50&10%
Nansen.....60&10%
Stowell Parlor Door 50%
Railroad 50%
Street Car Door.....50%
Steel, Nos. 300, 404, 500.....40&15%
Wild West.....50%
Zenith for Wood Track 50%
Taylor & Boggis Foundry Co.:
Kidder's .....50@50&10%
Wilcox Mfg. Co.:
Bike Roller Bearing .....60&10%
C. J. Roller Bearing.....60&10%
Cycle Ball Bearing.....50%
Dwarf Ball Bearing.....40%
Ives, Wood Track.....60&10%
L. T. Roller Bearing.....00&10&5%
New Era Roller Bearing .....50&10%
O. K. Roller Bearing.....60&10&5%
Prindle, Wood Track 60%
Richards' Wood Track 60%
Richards' Steel Track .....50&10%
Spencer Roller Bearing.....60&10%
Tandems, Nos. 1 and 2.....60%
Underwriters' Roller Bearing....40%
Wilcox Auditorium Ball Bearing 20%
Wilcox Barn Trolley No. 123 ....40%
Wilcox Fire Trolley, Roller Bearing 30%
Wilcox Le Roy Noiseless Ball Bearing 40%
Wilcox New Century....50&10&10%
Wilcox Trolley Ball Bearing.....40%

HATCHETS.

American Axe and Tool Co..... } 40&10%to40&10 &5%
Blood's..... }
Hunt's..... }
Hurd's..... }
Mann's..... }
Underhill's..... }
C. Hammond & Son.. }
Fayette R. Plumb.... }

HAY AND STRAW KNIVES.

Lightning.....$6 50&$7 00

HINGES.

BLIND AND SHUTTER.

Surface Gravity Locking Blind: (Victor; National; 1868 O.P.; Niagara; Clark's O. P.; Clark's Tip; Buffalo.)
No.....1 3 5
Doz pair.....$0.75 1.45 2.90
Mortise Shutter: (L. & P., O. S., Dixie &c.)
No.....1 1½ 2 2½
Doz. pair.....$0.60 55 52 45
Mortise Reversible Shutter, (Buffalo, &c.)
No.....1 1½ 2
Doz. pair.....$0.65 .60 .55
Parker.....70@75%
North's Automatic Blind Fixtures, No 2, for Wood $9.00; No. 3, for Brick $11.50.....10%
Reading's Gravity.....75&10%
Sargent's, No. 1, 3, 5.....66⅔&10%
Sargent's Nos. 11 & 13.....70&10%
Wrightsvile H'dware Co.:
O. S., Lull & Porter.....80&2½%
Acme, Lull & Porter.....75&10%
Queen City Reversible.....75&10%
Stenger's Positive Locking, Nos 1 & 3.....70&10&5%
Shepard's Noiseless, Nos. 60, 65, 55 .....70&10%
Niagara, Gravity Locking, Nos 1, 3 & 5 .....75&7½%
1868, Old Pat'n. Nos. 1, 3 & 5 75&7½%
Tip Pat'n, Nos 1, 3 & 5.....70&7½%
Buff, Gravity Lock., 1, 3, 5..75&7½%
Shepard's Double Locking, Nos. 20 & 25.....70&10%
Champion Gravity Locking, No 75 .....75&7½%
Steamboat Gravity Locking, No 10 .....5&7½%
Pioneer, Nos 060, 45 & 5½..75&7½%
Empire, Nos. 101 & 103.....70&7½%
W. H. Co's Mortise Gravity Locking No. 2.....60&10%
Stanley's Steel Gravity Blind Hinges, per doz. sets $1.30.....30&10%

GATE.

Clark's or Shepard's—Doz. sets:
No.....1 2 3
Hinges with Latches$1.90 2 50 3.85

Hinges only..... 1.30 1.90 2.90
Latches only..... 65 65 95
New England:
With Latch.....doz....@$1.55
Without Latch.....doz....@$1.25
Reversible Self-Closing:
With Latch.....doz....@$1.80
Without Latch.....doz ...@$1.45
Western:
With Latch.....doz. $1.40@1 75
Without Latch.....doz. $0.95@1.30
Wrightsville H'dware Co.:
Shepard's or Clark's Nos. 1 & 2.... 65&2½%
Shepard's or Clark's, No. 3....55&5%

SPRING

Ho'dback, Cast Iron, gros. $8.00@8.25
Non-Holdback, Cast Iron.... ... gro. $6.75@7.25
Extra 10% often given on most of these hinges.
J. Bardsley:
Bardsley's Patent Checking 15%
Bommer Bros.:
Bommer Spring Hinges 40%
Bommer Ball Bear. Floor Hinges.40%
Chicago Spring Butt Co.:
Chicago 20%
Floor Hinge.....40%
Garden City Engine House.....20%
Keene's Saloon Door 20%
Triple End.....40c
Hoffman Hinge & Foundry Co.:
No. 70 & 80 Holdback Detachable $8.50
Lawson Mfg. Co.:
Matchless 30%
Matchles Pivot..... .....35%
Payson Mfg. Co.:
Oblique.....50&10%
Stover Mfg. Co.:
Ideal, No. 16, Detachable, per gr. $12.50
Ideal, No. 4 .....per gr. $9 00
New Idea No 1.....per gr. $9 00
New Idea, Double Acting.....45%

WROUGHT IRON

Strapand T Hinges, list Mar. 15, 1901:
Light Strap Hinges.....75%
Heavy Strap Hinges.....80%
Light T Hinges.....70%
Heavy T Hinges.....66⅔%
Extra Heavy Hinges.....75&10%
Hinge Hasps..... .....60%
Cor, Heavy Strap.....80%
Cor. Ex. Heavy T.....75&10%
Screw Hook and Strap:
6 to 12 in.....lb. 3¼c
14 to 20 in.....lb 3¾c
22 to 36 in.....lb. 3 c
Screw Hook and Eye:
¾ to 1 inch.....lb. 5c
⅜-inch.....lb. 6c
½-inch.....lb. 7c

MISCELLANEOUS—

Hoffman's Steel Spring Butt Hinges 40&10%
Hoffman's Offset Refrigerator Hinges 40&10%

HOLLOWWARE.

Stove Hollowware Ground.....50%
Maslin Kettles.....70&10%

HOOKS.

Picture, No. 299 ....&28c

BUSH HOOK.

No 1, Underhill $9 00
Bird cage 40%
Clothes line .....60&10&10%
Grapling.....50%
Ceiling.....60&5%
Coat and Hat ..... 60&5%
Harness .....60&10&10%

WROUGHT IRON.

Cotton, V. & B.....25%
Tassel and picture.....50%
Wire, Coat and Hat, Gem.....net
Indestructible..... 45%
Brass .....net $2 0 %
Hooks and eyes, bright wire....8 &10%
Brass.....60&10&5
Fish hooks, American.....50%

HOSE—RUBBER.

Competition.....dis 70&10%
Standard 70%
Extra 60%
N. Y. Rubber Co.'s st'd.....50&10%
Banner.....60%
Extra..... 50%

IRONS—SAD AND POLISHING.

Mrs. Potts' No. 50.....70c
Mrs. Potts' No. 55.....70c
Mrs. Potts' No. 60.....90c
Mrs. Potts' No. 65..... 85c

KNIVES.

Standard List.....70&5%
Adjustable Handle.....25@33⅓%
Watrous.....30&10@40%
Cantelo's Folding.....25%
Improved Crown.....20%

KNOBS.

Base, 2½in. Birch Rubber tip ⅌ gro.....$1 40
Door, Mineral.....⅌ doz. 65c
Door, Por. Jap'd.....⅌ doz. 75c

LADLES.

Reading.....Net
Sargent's.....Net

LANTERNS—TUBULAR.

No. 0 Berger's "Bail Lift," per doz. $9 50.....40&10%
No. 0, Berger s "Bail Lift," Galvanized, per doz. $10 50...40&10%
No. 2 Berger's "Bail Lift," per doz. $13 00.. .....40&10%
No. 2 Berger's "Cold Blast," per doz. $16 00.....40&10%
No. 0 Berger's Dash Board, Japaned, Plain Globe, per doz. $13 00.....40&10%
No. 0, Berger's Dash Board, Japanned, Bull's Eye, per doz. $13 50 .....40&10%
No 2, Berger's Dash Board, Japanned, Plain Globe, per doz. $17 00 .....40&10%
No. 2, Berger's Dash Board, Japanned, Bull's Eye, per doz. $17 50.....40&10%

BULL'S EYE POLICE.

2¾-in. flash light, per doz. $3 50@$3 75
3-in. flash light, per doz. ..4 00@ 4 25
4¾-in. regular, per doz.....3 50
3-in. regular, per doz.....3 57

LEMON SQUEEZERS.

Wood, Commcn, per gr., No. 0 $5 00; No. 1 $6 50; No. 2 $10 00.

Wood, Porcelain lined, No. 1.....per doz. $3 00@$3 50
Tinned Iron.....per doz. 1 25
Iron, Porcelain Lined, per doz.....3 25@ 3 50
Jenning's Star...per doz. 1 85@ 1 90
King.....per doz.

LOCKS.

Plate 33⅓%
Slaymaker-Barry Co.....30&35%
Sargent & Co.....40, 40&10%
Yale flat key.....net
L. & C. round key.....30&10%
Reading Harding Co.....40%
L. & C. flat key latches .....33&10%
Stearns' sliding door....net $15 00

CABINET.

Eagle.....33⅓%
Yale.....33⅓%
Eagle and Corbin trunk.....25%

PADLOCKS.

Wilcock's..... 70%
M. W. & Co..... 70%
Russell & Irwin 70%
Slaymaker Barry Co..... 40%
Bohannon's brass..... 30%
Yale.....net
Eagle 33⅓%
Eureka, Eagle Lock Co 40%
Corbin.....33⅓&10%

MALLETS.

Fiber Head Sterns.....30&10%
Hickory..... .....40%
Lignumvitæ .....40&40&10%
Tinners'. Hickory and Applewood, per doz. .....75c@$1 50

MATTOCKS.

Regular list.....70%

MOWERS, LAWN.

Cheap.....all sizes, $2 00@$2 10
Good.....all sizes, $2 50@$2 75

	10	12	14	16-in
High Grade....	4.25	4.50	4.75	5.00

Pennsylvania and Continental .....Net price
Genuine Philadelphia Mowers:
Styles M. S., C., K., T.....70&10%
Style A, (all steel).....60&10%
Style E, Low Wheel.....60&10%
Style E., High Whee.....70&10&5%
Drexel, low list.....60%
Gold Coins, low list.....60%
Dewey's.....Net price
All Day .....Net prices

NAIL PULLERS.

Giant, No. 1..... per doz., $18 00. 40%
" No. 1½.... " 16 00. 40%
" No. 2..... " 15 00. 40%

Ajax.....Net prices.
Diamond B.....per doz., $ 9 00
Pipe.....per doz., 12 00
Eureka.....per doz., 10 00

NAIL SETS.

Octagon..... per gross, $8 00@$9 00
Round..... per gross, 8 00@ 9 00
Cannon's Diamond Point, per gross .....$9 00 Net

NUT CRACKERS.

Sargent's No. 12.....$1 50

OILERS.

Tin or Steel.....50%
Zinc..... 50&10&5 to 60%
Malleable Hammers 35%
Malleable Hammers, old pat., same list .....Net

PADLOCKS.

Sargent Dog Collar 70%
Sargent Wrought Steel and Brass..80%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws..... 25%
Blacksmiths',..... 40%
P. S. & W..... 25%

PIPE.

WROUGHT.

List February, 1898.
1¼ and under, plain.....50&2½%
1½ and under, gal.....50&2½%
1½ and over, plain..... 50&2½%
1½ and over, gal..... 50&2½%
Boiler tubes..... 50&2½%

PLANES.

Stanley Planes, No. 100.....$.30 each
" " No. 130..... .85 each

PLIERS AND NIPPERS.

Swedish Side Cutting Pliers 40%
" End " " 40%
" Diagonal " " 40%
Halls Compound Nippers.....40%
U. D. F. & T. Co., all kinds.....Net

PLUMBS AND LEVELS.

Common.....75 to 75&5%
Disston's.....60%

POACHERS.

Buffalo Steam Egg No. 1, per doz. $7 20. 50%

POLISH.

POLISH—METAL.

U. S. Metal Polish Paste, 3 oz. boxes, per dozen, 50c; per gr. $4.5 r; ½lb boxes, per doz. $1.25; 1 lb boxes, per doz.....$ 2 25
U. S. Liquid, 8 oz. cans, per doz. $1.25; per gr..... 12 00
Barkeepers' Friend Metal Polish, per doz. $1.75, per gr..... 18 00
Universal Paste, 3 oz. boxes.....60%
Burnishine Liquid 5 lb..... 16 00

POLISH—STOVE.

Dixon's .....per gross, $5 75
Dixon's Plumbago.....per lb 6½c

POPPERS, CORN.

Round or Square, 1 qt....per doz., 65%
Square, 1½ qt.....per doz., $1 00
Square, 2 qt.....per doz., 1 00

POST HOLE AUGERS AND DIGGERS.

Iwan's Patent Post Hole Auger....40%
Eureka Perfection Post Hole Digger, per doz.....$10 00
Atlas, per doz..... .... 8 25

POWDER.

IN CANISTERS.

Duck, 1 lb each.....45c
Fine Sporting, 1 lb each.....75c
Rifle, 1 lb each..... ....$1 00

IN KEGS.

Duck, 6½ lb kegs.....$2 50
Rifle, 6¼ lb kegs..... ..... 1 25
Rifle, 12½ lb kegs..... 2 75
Rifle, 25 lb kegs..... ..... 4 00

PRESSES—FRUIT AND JELLY

Enterprise Manufacturing Co.....25%

PULLEYS.

Hay Fork, Svl, Sd Eye, doz $1 75@$2 75
Hot House, Awning, etc.....50%
Japanned Clothes Line.....50%
Japanned Screw.....50&10%
Japanned Side.....50&10%
Sash (Auger Mortise):
Common Sense, 1¾ in ..per doz. 19c
Common Sense, 2 in .. per doz. 20c
Empire.... ....17c.; 2 in., 22c

SASH PULLEYS.

Fox No. 3 or No. 7, 2¼ wheel, ...25c per doz
Fox No. 9, 1¾ wheel.....20c per doz
Extra for plated Finish... 25c per doz
Extra for Anti-Friction Bronze Bushing.....10c per doz

RAZORS.

Fox Razors No. 42....per doz. $20
" " " 44.... " " 24 00
" " " 82..Platina " 24 00
Discount 40%
Rantankarus..... " 16 00

REGISTERS.

Black Japanned Registers, Ventilators, Faces and Borders, ...60 to 60&10%
White Japanned Registers, Ventilators and Faces.... ....50%
Bronzed Finishes in Imitation of Gold, Silver, Copper or Bronze .....40&10%
Nickelplated..... ....60%
Electro-Plated in Brass, Bronze, Copper or Oxidized Silver....40&10%
White Porcelain.....20%
Solid Brass and Bronze Metal.....20%

RIVETS AND BURRS.

Coppered Iron Rivets.....60&5%
Tinners Rivets.....60&5%

ROOFING SUPPLIES.

EAVE TROUGH.

"Perfection" Galvanized Eave Trough.....75&10%
"Eclipse" Galvanized Eave Trough..... .....75&10%
Double Bead Galvanized Slip Joint Eave Trough.....75&10%
Double Bead Galvanized Lap Joint Eave Trough.....75&10%

GUTTERS.

Roof Gutters, Galvanized.....75&10%

PIPE.

Plain Round Pipe, Galvanized, Nested.....60&20&2½%
Plain Round Pipe, Galvanized, Unnested.....60&20%

VALLEYS.

Valleys, in Rolls, IC and IX Terne.70%
Valleys, in Sheets, IC and IX Terne.....70%

HOOKS.

Flashing Hooks.....10%
Wrought Conductor Hooks.....60%

CUT-OFFS.

Kuehn's Galv.....60%
Acme Galv..... 10&10%
Acme Tin.....60&10%
Centennial Tin.....20%

EAVE TROUGH HANGERS.

Eave Trough Hangers, Single and Double Bead, Imperial.....10%
Eave Trough Hangers, Single and Double Bead, Wire.....

ELBOWS.

One Piece Conductor Elbows, Galvanized, Corrugated..... 60%
Adjustable Elbows, Tin, ...50%

PREPARED ROOFINGS.

Imperial 2-ply Tarred Roofing complete..... $1 75 per sq.
Imperial 3-ply Tarred Roofing, complete.....$2 00 per sq.

ROPE.

	Per lb.
Manilla, 7-16 inch diameter and larger.....	10½c
Manila, ⅜ in.....	10¾c
Manila, ¼ and 5-16 in.....	11¾c
Sisal 7-16 in. and larger.....	8c
Sisal, ⅜ inch.....	9c
Sisal, ¼ and 5-16 in.....	9c
Sisal, Medium Lath Yarn	10c

SASH CORD.

Braided, Drab.....lb 25c
Braided, White common..lb 17½@18c
Cable Laid Italian ....lb, A 18c, B 16c
Common India.....lb 9c@9½c
Cotton Sash Cord, twisted....12@16c
Patent Russia.....lb 12½@13c
Cable Laid Russia.....lb 13½@14c
India Hemp, braided.....lb 14@15c
India Hemp, twisted.....lb 10@12c
Patent India, twisted.....lb 10@12c
Pearl Braided, cotton .....lb 17@18c
Massachusetts, white.....lb 22½c
Massachusetts, drab.....lb 20½c
Eddystone Braided, cotton ....lb 19c
Harmony Cable Laid Italian....lb 18c
Ossawan Mills:
Crown, Solid Braided, white ..lb 18c
Braided, Giant, white.....lb 17c
Peerless:
Cable Laid Italian.....16c
Cable Laid Russian.....14c
Cable Laid India..... 12c
Braided India.....18c
Phœnix, white.....19c
Samson:
Braided, Drab Cotton .....lb 32½c
Braided Italian Hemp.....lb 32½c
Braided, Linen.....lb 49c
Braided, White Cotton, Spot.lb.28½c
Silver Lake:
A quality, Drab, 40c.....15%
A quality, White, 35c.....15%
B quality, Drab, 35c.....15%
B quality, White, 30c.....15%
Italian Hemp, 40c.....15%
Linen, 57½c.....15%

SASH LOCKS.

Ives, Patent.....60@60&5%
Payson's Perfect.....Net
Payson's Signal (new list).....Net

SAWS.

Atkins' Circular.....Net
Atkins' Band.....Net
Atkins' Cross Cuts.....Net
Atkins' Mulay, Mill and Drag.....40%
Atkins' One-Man Saw.....Net
Atkins' Circular Solid and Inserted Tooth.....50%
Atkins' Bands over 2 in. wide.....60%
Atkins' Bands under 2 in. wide.57&10%
Atkins' Mill, Mulay and Drag.... 50%
Atkins' Cross Cuts..... 40%
Atkins' One Man.....40&10%
Atkins' Narrow Cross Cuts.....40%
Atkins' Wood Saws and Blades.40&10%
Atkins' Hand Saws.....40%
Atkins' Compass Saws.....50%
Atkins' Butcher Saws.....40&10%
Disston Circular Solid and Inserted Tooth.....50%
Disston Cross Cuts.....Net
Disston Narrow Cross Cuts.....Net
Disston, Mulay, Mill and Drag....40%
Disston Framed Woodsaws.....35%
Disston Woodsaw Blades.....40%
Disston Woodsaw Rods.....25%
Disston Handsaws. Nos. 12, 99, 9, 16, D100, D8, 120, 76, 77, 8.....25%
Disston Hand Saws, Nos. 7, 3.....30%
Disston Compass, Keyhole, etc....25%
Disston Butcher Saws and Blades.35%

SAW FILERS

Stearns'.....25%
Silent saw.....35%
Sargent's.....60&30%
Reading.....37½%

SCALES.

Family, Turnbull's .....30@30&10%
Hatch, Counter:
Platform, 4 lb. by ½ oz..doz...$5.75
2 Platforms, 8 lb. by ½ oz. doz $16 00
Union Platform, Plain.....$1.75@$2.00
Union Platform, Striped..$1.85@$2 15
Chatillon's Eureka.....25%
Chattilon's Favorite.....40%
Chatillon's Grocers' Trip Scales ..50%
Pelouze Scales, Household Counter, Confect. Postal, Ice, &c.....50%
"The Standard" Portables.....45%
"The Standard" R. R. and Wagon 50%

SCREWS.

BENCH AND HAND.

Bench, Iron.....per doz. 60%
Bench, Wood, Beech..per doz. $3 50
Hand, Wood.....30%

COACH, LAG AND HAND RAIL.

Coach and Lag, Gimlet Point, list Sept. 20, 1899.....75@75&10%
Hand Rail, list Jan. 1, 1871.....75%

JACK SCREWS.

ack Screws.....70%

WOOD.

MANUFACTURERS' CIRCULAR PRICES.

New List.
pnatHead Iron.....87½%
u RoFl and Oval Head Iron.....85%
Flat Head Brass.....85%
Round and Oval Head Brass.....82½%
Flat Head Japanned.....82½%

SCYTHES.

Blood's.....$ 8 50
Clover..... 8 50
Grain Clipper, Blood's..... 10 50
Hollow Clip..... 8 50
Silver Clip..... 8 50
Honest Dutchman..... 8 50

SHEARS.

	7	8	9 in.
Best.....	$16.00	$18.00	$20.00 gro.
Good.....	13.00	15.00	17.00 gro.
Cheap....	5.00	6.00	7.00 gro.

Straight Trimmers, &c.:
Best Quality Jap.....70@70&10%
" Nickel.....60@60&10%
Fair qual. Jap.....80@80&5%
" Nickel .....75@75&10%
Tailors' Shears.....40@40&10%
Acme Cast Shears.....40@40&5%
Heinisch's Tailors' Shears. 40@40&5%
Wilkinson's Hedge 50%
Wilkinson's Sheep.....1900 list, 50%

SHINGLES, METALLIC.

Eastlake I. C. Tin Shingles, painted, pr sq.....$4 25
Eastlake I. C. Tin Shingles, galvanized, pr square.....$6 00
Octagon Fluted I. C. Tin Shingles, painted, per square..$5 50
Octagon Fluted I. C. Tin Shingles, galvanized. pr sq....$7 25

SIFTERS.

Eclipse.....per gr $15 00
Hunter's Genuine.....per gr $16 00

SKATE SHARPENERS.

Skate Sharp., Eureka, per doz $2 00 net
Washer Cutters, Woodard's per doz.....$2 50 net

SLATE.

GENUINE NO. 1 BANGOR.

24x14, 24x12, 12x 8 } $3 50 pr sq. — 20x10, 18x10, 18x 9, 16x 8 } $4 50 pr sq
22x11, 20x12, 18x12, 16x12, 14x10, 14x 8, 14x 7 } $3 75 per sq. — 16x10, 16x 9 } $4 25 pr sq; 12x 7, 12x 6 } $3 25 pr sq

GENUINE NO. 1 BANGOR RIBBON.

24x14, 24x12 } $3 00 pr sq. — 20x10, 18x10, 18x 9 } $3 50 pr sq
22x11, 20x12, 14x 8, 14x 7 } $3 25 pr sq. — 16x10, 16x 8

SNAPS.

German.....40@40&10%
Covert Mfg. Co.:
Derby.....35&2%
High Grade .....45&2%
Jockey.....40&2%
Trojan .....45&2%
Yankee.....35&2%
Yankee, Roller.....30&2%
Covert's Saddlery Works:
Banner .....60&10%
Crown.....60&10%
Model .....60&10%
Triumph .....60&10%
W. & E. T. Fitch Co.:
Bristol .....40&10%
Empire.....50&5%
German 40%
National .....50&5%
Perfect.....45%
Clipper.....50&5%
Champion.....40%
Security.....40%
Victor.....60&5%
Oneida Community:
Solid Steel.....65@65&10%
Solid Swivel.....65&10@65&10&10%
Sargent's Patent Guarded...66⅔&10%

SOLDERING FURNACES.

No. 3 Gems tin reservoir.....$6 00
No. 6 Gems copper reservoir..... 8 50
Gem Gas Pots..... 3 25
Clayton & Lambert No. 1 Fire-Pot 6 00
Clayton & Lambert's Special Fire-Pot..... 4 50

SPRINGS, DOOR.

Star (Coil) list Oct. '95.....net
Torrey's Rod 39 in. Per doz. .....$1 20@$1 25
Warner's No. 1.....net 75

SQUARES.

Steel and Iron.....65, 10&5%
Nickel plated.....65, 10&5%
Try squares and bevels.....65, 10&5%
Disston's.....45%
Bemis and Call, pocket.....30%
Winterbottom's try & mitre.....30%
Starrett's.....25%

STAPLES.

Barbed Blind .....per lb., 10c
Poultry Netting.....per lb., 5c

STAPLE PULLERS.

Russell Staple Pullers..per doz., $9 00

STOVE PUTTY.

1, 10 & 25 pound Cans.....per lb., 5c
500 pound Kegs.....per lb., 4½c

STROPS.

RAZOR.

Emerson.....460 to 60&5%
Imitation.....20, 10&5%
Torrey's.....20%
Tower & Lamont.....per doz $4 00
04 Combination.....per doz 3 75

TACKS.

List Jan. 15, '99.
Carpet Tacks, American.....90&40%
American Cut Tacks.....90&30%
Swedes Iron Tacks.....90&40%
Swedes Upholsterers' Tacks.....90&40&10%
Gimp Tacks .....90&40&10%
Lace Tacks .....90&40&10%
Trimmers' Tacks.....90&30%
Looking Glass Tacks .....70&10%
Bill Posters' and Railroad Tack90&40%
Hungarian Nails.....80&15%
Common and Patent Brads....80&10%
Trunk and Clout Nails.....80&10%

TRAPS.

GAME.

Oneida Pattern .....75&5@75&10&5%
Newhouse .....45@50%
Hawley & Norton.....65@5&70%
Victor (Oneida Pattern) .. 75@75&10%
Star (Blake Pattern) ....65&10@70&5%

MOUSE AND RAT.

Mouse, Wood, Choker, doz. holes .....8½@9c
Mouse, Round or Square Wire, doz.....$0.85@1.00
American Pattern French Rat and Mouse Traps—
No. 1, Detroit Marty Pattern, per doz. $4.50; in ½ gro. lots, per doz $4.00
No. 2, Detroit Marty Pattern, per doz, $3.25; in ½ gro. lots, per doz.....$3.00
Detroit Marty Pattern Mouse, per doz. $2.00; in ½ gro. lots, per doz.....$1.75
Diamond Joe Mouse Traps, per doz.....60c
Diamond Joe Rat Traps, per doz.$1.00
Marty French Rat and Mouse Traps. (Genuine:)

TWINE.

Flax Twine—

	BC	B
No. 9, ¼ and ½ lb. Balls...	20c	24c
No. 12, ¼ and ½ lb. Balls ...	17c	20c
No. 18, ¼ and ½ lb. Balls ...	14c	17c
No. 24, ¼ and ½ lb. Balls	14c	17c
No. 36, ¼ and ½ lb. Balls...	13c	16c

Chalk Line, Cotton, ½ lb. Balls18@20c
Cotton Wrap., 5 lb. Balls to lb 16 to 20c
2-Ply Hemp, 1½ lb. Balls (Spring Twine) .....12@15c
3-Ply Hemp, 1 lb. Balls.....12@15c
3-Ply Hemp, 1½ lb. Balls .....
2, 3, 4 and 5-Ply Jute, ½ lb. Balls.... 8c
Mason Line Linen, ½ lb. Balls 45c
No. 204 Mattress, ¼ and ½ lb. Balls 34c
Wool.....5½@6c

VISES.

Solid boxes.....40%
Parker's.....20%
Howard's.....35%
Bonney's.....35%
Trenton.....40%
Stearns'.....50%
Cheney's.....12½%
Massey's.....25%
Parallel.....30&5%
Holland's.....35%
Stevens'.....25%
Miller's Falls.....40%
Prentiss.....20%
No. 1, Rat each $1.12½; per doz. $12.00
No. 3, Rat, per doz. $6.00; case of 50.....$5.25doz
No. 3½, Rat, per doz $4.75; case of 72.....$4.25 doz.
No. 4, Mouse, per doz. $3.50; case of 72.....$3.75 doz.
No. 5, Mouse, per doz. $2.75, case of 72.....$2.25 doz.
Schuyler's Rat Killer, No. 1, per gro. $30.00; No. 2, per gro. $30.00; Mouse, No. 3, $18.00.....50%

FLY.

Balloon, Globe or Acme..... doz. $1.15@1.25; gro. ... $10.50@11.00
Harper, Champion or Paragon.... doz. $1.25@1.40; gro....$12.00@12.50

TROWELS.

Disston Brick and Pointing 30%
Disston Plastering.....25%
Disston 'Standard Brand" and Garden Trowels.....40%
Never-Break Steel Garden Trowels.....gro. $7.00
Peace's Plastering.....30%
Rose Brick and Plastering.....25&5%
Woodrough & McParlin, Pl'st'ring

WASHERS.

LEATHER, AXLE—

Solid .....80&10&10@85%
Patent.....85&10@85&20%
Coil: ⅜ 1 1⅛ 1¼ inch.
11c 12c 18c 15c per 100

IRON OR STEEL.

Size bolt 5-16 ⅜ ½ ⅝ ¾
Washers $5.20 $4 30 $3.00 $2.80 $2.60
In lots less than one keg add ¼c per lb; 5-lb boxes add ½c to list.

CAST WASHERS.

Over ½ inch, barrel lots per lb .....1⅛@1¼c

WELL WHEELS.

8-in., $1.65@$1.75; 10-in., $2.00@$2.10; 12-in., $2.50@$2.75; 14-in., $4.25@$4.40

WIRE AND WIRE GOODS.

Brt. and Ann., 6 to 9, 70&10@70&10&5%
Brt. and Ann., 10 to 18, 72½@72½&10%
Brt. and Ann., 19 to 26, 75&7½@75&10%
Brt. and Ann., 27 to 36.....75&10&5@75&10&7½%
Cop'd and Galv., 6 to 9, ...70@70&10%
Cop'd and Galv., 10 to 18.....70&10@70&10&5%
Cop'd and Galv., 19 to 26.....75&7½@75&10%
Cop'd and Galv., 27 to 36.....75&10@75&10&5%
Tinned, 6 to 14.....75@75&5%
Tinned, 15 to 18 .....70&5@70&10%
Tinned. 19 to 26.....70@70&5%
Tinned, 27 to 36.....65&10@70%
Annealed Wire on Spools.....70&5@70&10%
Brass and Copper Wire on Spools .....60&5@60&10%
Brass, list Feb. 26, '96.....25%
Copper, list Feb. 26, '96.....15%
Cast Steel Wire.....50%
Stubs' Steel Wire, $6.00 to £.....40%

BRIGHT WIRE GOODS.

List April 1, 1901.....85@85&10%

WIRE CLOTH AND NETTING.

Galvanized Wire Netting....85@85&5
Ptd Screen Cloth per 100 ft $1.00@$1
Light Hardware Grade:
2-8 Mesh, Plain (8c list) sq ft... 1¼c
2-8 Mesh, Galv. (8c list) sq ft ...2¼c

WRENCHES.

Agricultural.....70&10%
Case lots.....75&10%
Acme.....60&5%
Baxter's S.....60&10%
Bull Dog.....70%
Coe's Genuine.....40&10&5%
Coe's "Mechanic's".40&10&10&5&5%
Alligator.....60&10&10%
Bemis & Call's:
Adjustable S.....35&5%
Adjustable S Pipe.....40%
Briggs' Pattern.....30&10%
Combination Black.....40&5%
Combination Bright.....40%
Cylinder or Gas Pipe.....55%
Extra Heavy.....45%
Merrick's Pattern.....50%
No. 3 Pipe, Bright.....55%
Bindley Automatic.....30%
Boardman's 33⅓%
Donohue's Engineer.....40&10%
Eagle .....50&10%
Gem Pocket.....30%
Hercules.....70%
Knife Handle, Machinists' (W & B.): 0&10%
Case lots.....50&5%%
Less than case lots.....6%
Improved Pipe (W. & B.).....50&10
Solid Handles, P. S. & W.....&10 &
Stevenson..... 5%

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS.—H. W. T. JENNER, Patent attorney and mechanical expert, 608 F street, Washington, D. C. Established 1883. I make an examination free of charge and report if a patent can be had and exactly how much it will cost. Send for circular. Member of Patent Law Association.

PATENTS HUBERT E. PECK, 623 F St., N. W. Washington, D. C. Consulting Expert in Patent Causes, U.S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

Wanted—To buy stock of hardware or farm implements. Address P. O. Lock Box 227, Flanagan, Ill. 1

For Sale—320-acre highly improved farm, in Northern Central Iowa within 2½ miles of a good live County Seat town of 2,000 people. This class of property will advance rapidly; now is the time to buy. Might exchange for a good $4,000 stock of Hardware. Long and easy terms on balance. For further information address, N. I., care of THE AMERICAN ARTISAN, 69 Dearborn st., Chicago, Ill. 26

Wanted—To sell or exchange for a farm or clean stock of hardware, a flour and grist mill located in Central Wisconsin, Sauk County. For particulars write to Columbus Hardware Co., Columbus, Wis. 26

For Sale—First-class stock of hardware, stoves, tinware and buggies. Located in center of corn belt in Illinois. Will invoice about $3,500; in town of 1,600 inhabitants. Address, "Illinois," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

For Sale—Stock of hardware and stoves. Will invoice about $3,500. Also two-story iron clad building and shop, located in southern part of Wisconsin. Prospective buyers of first-class hardware business please investigate. Address, H. O., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

Wanted—Hardware stock; from $3,000 to $4,000. Will give in part payment good income Iowa town property. Address J., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

For Sale—An established cornice, slate, tin roofing, furnace and steel ceiling business in Champaign, Illinois. Cornice brake new. Tinners' tools good. No bonus required. Reasons for selling, health will not permit owner to continue longer. Address, C. H. Russell, Champaign, Ill. 25

Wanted—Working partner, with from $500 to $1,000, in the tinning, plumbing and heating business, practical man. Only shop in town. Population 2300, good country. Reference required and given. Address Lock Box 364, Stanley, Wisconsin. 24

For Sale—Clean stock of hardware and store in new town in northwestern Iowa, large territory, best corner in town. Splendid opening to run agriculture implements in connection. Cash only. Address Care Corner, THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 24

For Sale—A stock of hardware and stoves. We have stock of about $1,200 or $1,300, which we will sell for $1,000 cash. We have the finest tinners' tools in the city, also fixtures, wagons. We have no horse at present. A good stand for a hustler. Sickness is cause of selling. L. M. Matthews, 1850 Milwaukee Ave., Chicago, Ill. 24

For Sale—Tinshop, tools, stock and building, town 1,500 people, only one in place, 20 years established, doing $4,000 of business last season. Must be sold in the next 30 days. E. E. Edwards, Cerro Gordo, Ill. 24

TINNERS' TOOLS.

For Sale—A set of tinner's tools in first-class shape; and square shears. Will sell cheap for cash. B. C. Bixler, Bakersville, O. 26

For Exchange—One new two-roller McClair butter worker, 100 lbs. capacity; corrugated roller; the perfection of hand work. J. T. McKim, Thorntown, Ind. 26

For Sale—30-inch P. S. & W. square shears, in good condition, $17.50. Barbour Hardware Co., E. St. Louis, Ill. 25

Wanted—A second-hand 8-foot Cornice Brake. Must be in first-class condition. Address, giving condition, price, etc., care P. O. Box 465, Erie, Pa. 25

For Sale—2 pair Hurlbut's double seaming roofing tongs, $12. 1 P. S. W. Folder, 104. Used only a short time, $27. Lots of other tools cheap. Graves Sheet Metal Works, Kansas City, Mo. 25

Tools for sale—An almost complete set of tinners' tools; list price $175; will cut off the $100 for cash; first call, first served. Address W. L. Eriksen, Joliet, Ill. 24

Wanted—30 inch squaring shears, second hand. Lees & Co., Two Harbors, Minn. 24

Wanted—A second hand 30-in. bar folder, must be in good shape: sent with privilege of examining. R. M. Bolinger, Florence, Ala. L. B. 383. 24

HELP WANTED.

Wanted—Good tinners and cornice makers at once. Maresh Bros., Iowa City, Iowa. 1

Wanted—Traveling salesman thoroughly conversant with the tin plate and metal business. Address Merchant & Co., Inc., Philadelphia, Pa 1

I would like a good all-around man to do inside and outside work. Single or married, good habits; right man can have steady work. Would like to have a man that speaks German as he is needed in the store as well as in the tin shop. A. W. Goldschmidt, Kinsley, Kan. 1

Wanted—Experienced clerk for general hardware store in south-eastern South Dakota. Norwegian preferred. Give references and state wages wanted. Address "General," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

Wanted—A good A 1 tinner, capable of doing cornice and skylight work; also, furnace work. Good wages and steady work. None but steady, honest men need apply. W. R. Williams, Mason City, Ia. 26

Wanted—A good tinner and plumber for town in Iowa. The right man can get permanent employment. Don't write unless you are the right man. Address, "Want W." care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 26

Wanted—At once, a good all-around shop man. Prefer one who understands plumbing and heating as well as tin work; married man preferred; must be sober. Give particulars and wages. Newton Bros., Fowler, Ind. 26

Wanted—A good, honest hardware clerk, one who is not afraid of work; must be a good salesman and have some knowledge of window dressing. One that speaks German preferred. Steady job and fair salary to the right man. Address R. H. Suettinger, Two Rivers, Wis. 25

Wanted—A man or woman who can make clever water color sketches, to draw original designs for stoves, etc. Secondary position but chance for advancement if competent. If a modeler or woodcarver say so, and send sample sketch which will be returned. Previous experience in this line not absolutely necessary. Address, "Artistic," care of THE AMERICAN ARTISAN 69 Dearborn St., Chicago, Ill. 25

Salesman Wanted—For firstclass line of stoves and furnaces for western Iowa, for Kansas, for Nebraska. Practical men desired in each instance. Address "Box 22," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 25

Wanted—At once, a tinner for roofing and spouting, mostly. Geo. L. Fisk, Ellisville, Ill. 25

Wanted—Young man who has had experience in applying composition ornaments either on picture frames or patterns. State experience, wages wanted, and when you can be seen. Address, "Art Work," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 25

Wanted—A good all-around tinner; one who can do plumbing and hot water work preferred. Steady job all the year. H. D. A. Grebe, Barrington, Ill. 25

Wanted—At once; thoroughly good all-around tinner and furnace man. Fair treatment and good wages to capable man. Address, M. & P., Aurora, Ill., 19 So. Water St. 25

Wanted—At once; competent man in roofing, guttering, pumps, general repair, some knowledge of hot air and steam heating. Competent in use of pipe dies. Must be alert, sober, steady; good job to right man. Write at once, state wages, references. Skinner Bros., Forest, Ill. 25

Wanted—First class tinner and furnace man at once. Steady job to right man. C. J. Stark, Ortonville, Minn. 24

Wanted—A combination plumber and tinner, steady job and good wages. Address Box 159, Deer Lodge, Mont. 24

Wanted—Traveling salesmen who call on stove, hardware and housefurnishing dealers, to sell flat wire doormats. Popular prices and good selling side line. Ægis Mfg. Co., Marshalltown, Ia 24

Wanted—A good man in heating and plumbing, with knowledge enough of tin work to do roofing and spouting. W. T. Haggard, DeLand, Ill. 24

Wanted—A tinner with one year or more at the trade would do, also to help clerk in the store. Must be sober, industrious and honest. In answering state wages wanted, and if you can speak different languages, Address "J. P. F.," 1244 Main St., Green Bay, Wis. 24

Wanted—A young tinner, at once. State wages. Work year around year after year. One that speaks German preferred. Steady job to right man. Address H. A. Brouillet, Lansing, Ia. 24

Wanted—Tinner. A young man who has just finished his trade preferred. Lees & Co., Two Harbors, Minn. 24

Wanted at once—A firstclass tinner, who can do all inside and outside work. State wages, experience and age. Must be sober. A steady job for the right man. A German preferred. Address John H. Haensgen, Fond du Lac, Wis. 24

Tinner Wanted—Steady job for right man. Powers & Williams, Streator, Ill. 23

Wanted—Man who thoroughly understands stamping of sheet metal ornaments. Address, stating experience and wages wanted, 1252 Manchester Ave., St. Louis, Mo. 23

Wanted—Experienced range salesmen to sell the Artistic Enameled Steel Ranges on commission. Must be firstclass salesmen with references. Artistic Enameling Works, St. Louis, Mo. 23

Wanted—A good, all round tinner, sober, for inside and outside work, including pump work. Steady job for right man. J. A. Dunstan, Hollandale, Wis. 23

SITUATIONS WANTED.

Position Wanted—As tinner by a good reliable, temperate, up-to-date young man. 7 years' experience. Reference given. Can come at once. Illinois preferred. Address Box 933, Portage, Wis. 1

An experienced stove and furnace salesman wants position with some first-class house to represent their goods in territory tributary to Minneapolis, Minn. Can furnish the best of references. "Furnace" care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 1

Situation Wanted—July 15, by a practical furnace man and tinner. Can plan, estimate and set any furnace. Age 28; 10 years' experience; steady; temperate and reliable. Am partly deaf. Can give references from present employers. W. A. Salter, Lyons, Kansas. 26

Situation Wanted—By an experienced traveling salesman who up to Jan. 15 was employed for 12 years in the stove business. Address, "Years," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 25

Wanted—Position in tin or cornice shop or in hardware store. Iowa preferred. Willing to work. Box 267, Mt. Ayr, Ia. 25

Situation—By a sober and reliable man of 28 years' experience in country and city shops at tinning, plumbing, iron piping, steam fitting, wind mill and pump work, general jobbing and cotton mill work. Steady position, by the year. Wages, $10.00 per week. References, if required. Address, Tinsmith, Woodhull, N. Y. 25

Wanted—Steady job year round by an A1 sheet metal worker, capable of taking full charge of any size tinshop, would like job as working foreman. References or trial. Am married and a total abstainer. R. C. T., care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill. 24

SPECIAL NOTICES.

Four first-class salesmen to travel with a steam automobile, placing agencies and selling a line of parts and specialties. Territory includes a portion of New York State, New Jersey, Pennsylvania and New England. Must have A1 references and be able to furnish cash security for carriage. Address

WANTED.

Salesmen to sel steel ranges on commission. Address

"H. F. T."

care THE AMERICAN ARTISAN
Chicago, Ill.

SPECIAL NOTICES.

Wanted.

Salesmen calling upon stove trade, to handle line of steel ranges on commission. Address, with references,

"Box 411"

care THE AMERICAN ARTISAN, Chicago, Ill.

WANTED

A member of Minnesota Retail Hardware Association, 15 years in retail business in Minneapolis, central location, prosperous business, desires active partner to help him enlarge and add jobbing department for city trade. Closest investigation solicited. Address

"Expander,"

care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

WANTED.

An experienced foreman in gasoline and oil stoves to take charge of machine shop, press and die room, capable of designing and handling dies and pushing through work at lowest cost and lots of it. Apply by mail, giving age, experience and reference.

The Monarch Stove & Mfg. Co., Mansfield, O.

WANTED.

A first-class stove salesman at good salary for territory west of the Missouri River. None other need apply. Address, giving references,

Box 206,
Memphis, Tenn. 26

SALESMEN WANTED.

Salesmen calling on the stove trade can learn of a profitable side-line by addressing

Independent Register Co.,
Cleveland, O. 26

---

50 Hardware Ads...	50c
50 Bicycle Ads.....	50c
50 Furnace Ads....	50c
50 Implement Ads..	50c
100 Steel Range Ads.	100c

Advertising Pays. Get a copy of these ads which are the best used be us. They increase our trady and will yours. Catchy headlines ready for the printer. Stamps taken. Address

H. P. Townley, Terre Haute, Ind.

SPECIAL NOTICES.

FOR SALE.

Good clean stock of hardware, stoves, queensware and furniture in a live town of 2,000 inhabitants in central Illinois. Will invoice about $7,000.00. Will sell or rent building. Good reasons for selling. Cash for stock. Address,

Delworth Carter,
Astoria, Ill.

Wanted Position

As manager or sales manager for stove foundry by a man having had varied experience, covering large territory; capable of managing a branch house; best of references can be furnished. Address "Box R" care 24

The American Artisan,
69 Dearborn Street, - CHICAGO, ILL.

SPECIAL NOTICES.

FOR SALE.

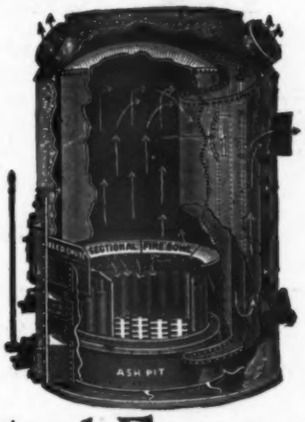
Tinning and furnace business in a rapidly growing town of 1,200 in Northern Indiana; only shop. Good opening for tinner who understands plumbing, as town is now putting in water works. Rare chance for man with small capital. Reason for selling am engaged in other business which requires all of my attention. Investigate at once. Address, LAKESIDE care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill.

YOUNG MAN

With good connections in British Isles and Continental Europe wishes agencies for a few lines of American manufacture. Prompt attention. References. Address

MONTAGUE,
39 Paradise Street,
Liverpool, Eng.

The Lennox



Steel Furnace

Made By The **Lennox Machine Company,**
15 East Fredrick St., Marshalltown, Iowa.
Catalog Free.

BIG FOUR ROUTE

Chicago to { Indianapolis, Cincinnati, Louisville, the South and Southeast

Peoria, St. Louis, Indianapolis, Cincinnati, Louisville } To **New York** AND **The East**

W. P. DEPPE, A. G. P. & T. A. — W. J. LYNCH, G. P. & T. A.
CINCINNATI.

J. C. TUCKER, G. N. A., 234 Clark St., Chicago

Crying to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

DIXON'S SILICA GRAPHITE PAINT

FOR TIN OR SHINGLE ROOFS AND IRON WORK. IT IS ABSOLUTELY WITHOUT AN EQUAL. Tin roofs well painted have not required repainting for 10 to 15 years.

If you need any paint it will pay you to send for circular.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

CUT THIS OUT.

To the Publishers **THE AMERICAN ARTISAN,**
69 Dearborn St., Chicago.

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars, for one year's subscription, or 50 cents in case we decide to discontinue.

NAME _____

ADDRESS _____

TOWN _____

STATE _____

PLECKER'S CORRUGATED EXPANDING CONDUCTORS.
Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

Clark, Quien & Morse, - Peoria, Ill.

Gee Whizz Washer

A Novelty and a Winner.

Does what it is intended and guaranteed to do.

Made without hoops or staves, will neither shrink, leak nor fall down. The labor saving washer of 20th Century. Our circular describes the reflex motion and tells why it whirls, rubs, slaps, squeezes and sucks the dirt out of the clothing.

You want the agency. Write for particulars to

RANDLEMAN & SONS, Des Moines, Iowa.

BARKEEPER'S FRIEND.

Marble, Glass, Nickel, Brass, Copper, Tin and German Silver

can all be cleaned and polished with it easier than with anything else. Price 25 cents per pound.

Let us send you a free sample.

GEO. WM. HOFFMAN
205 E. Washington St., Indianapolis, Ind.

FOR SALE BY JOBBING TRADE

CHICAGO,

Milwaukee & St. Paul

RAILWAY.

ELECTRIC LIGHTED TRAINS BETWEEN

Chicago, Des Moines, Sioux City, Omaha,

Chicago, Milwaukee, St. Paul, Minneapolis,

EVERY DAY IN THE WEEK

All Coupon Ticket Agents sell tickets via Chicago, Milwaukee & St. Paul Ry.

F. A. MILLER, General Passenger Agent, CHICAGO, ILL.

A. E. Jacobson, Charles City, Ia., writes:
"Please take my ad for situation out, or I will have to hire a stenographer to do my corresponding. I have up to date received eighteen letters and jobs. Will say I could not be without THE AMERICAN ARTISAN."

THE ORIGINAL

BRAMMER Rotary Washer.

An especially well made and light running machine and GUARANTEED TO GIVE SATISFACTION.

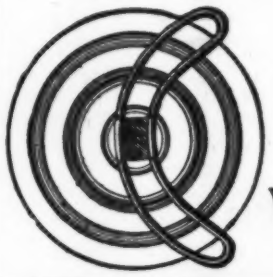
A simple, powerful and durable movement. This very substantial tub is made from a select quality of Cypress lumber.

Made also in the detachable leg style, as well as square.

We manufacture the most complete and satisfactory line of Washers on the market. Send for illustrated catalogue.

BENBOW-BRAMMER MFG. CO.,
1007 N. 13th Street,
FACTORIES: St. Louis, Mo., Davenport, Ia. **ST. LOUIS, MO.**

THE Peerless Flue Stopper



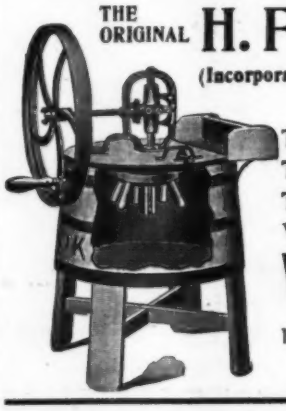
Steel wire springs instead of sheet iron stays.

Stays where you put it, and is absolutely soot and smoke proof.

Made either plain or decorated.

Send for miniature sample and prices.

Welling Manufacturing Co.,
Columbus, O.



THE ORIGINAL

H. F. Brammer Mfg. Comp'y

(Incorporated 1888) DAVENPORT, IOWA.

MANUFACTURERS OF

The Original Improved Brammer Washer.
The Original O. I. C. Pendulum Washer.
The Original O K Rotary Ball Gearing Washer.
With Gold And Copper Bronzed Hoops And Castings.

WE LEAD. Others imitate. The superiority of our Washers is too well known, and dealers will not be misled by similar machines.

Quotations and particulars will be sent on request.

Elgin Style.

RAIL ROAD MILK CANS

These cans are made of Heavy Cold Rolled Steel. The covers and necks are made seamless; hence there are no seams for sour milk to collect in. A heavy steel washer is soldered to both cover and neck, thus preventing the holes from tearing out. The handles are heavy and of malleable iron—made solid. The handles are riveted to the breast with two heavy rivets on each side of the handle. All cans are lettered to order with 1½ inch copper letters. **ALL LEADING DEALERS HANDLE THIS CAN.** Write us or prices.

Arthur A. Peterson & Co., Maple Park, Ill.
Manufacturers of Extra Heavy Dairy and Pieced Tinware.

FLEMING BROS., ARMSTRONG, IA., ... WRITE:

"Please discontinue our ad. for a tinner in your valuable paper. We are getting applications from tinners every day, but have secured one by the ad. in THE AMERICAN ARTISAN."

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

BRIDGEPORT CRUCIBLE CO.
BRIDGEPORT, CONN.

Repairs For all Stoves

Great Western Stove Repair Co.

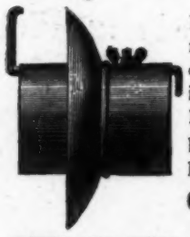
MINNEAPOLIS, MINN.

Stove, Range and Furnace **REPAIRS**
OF ALL KINDS.
American Stove Repair Works,
186-188 West Seventh Street, ST. PAUL, MINN.

REPAIRS FOR ALL STOVES and RANGES.

A. G. Brauer, 316-318 North Third St., ST. LOUIS, MO.

Haylor's Hold Fast Stove Pipe



Is made 9½ inches long, each joint is ready, fitted with fastening device, and beautifully designed gilded collar, which measures 10½ inches in diameter for the six inch pipe, and 11½ inches in diameter for the seven inch pipe. They are packed a half dozen, complete, to each crate.

ORDER FROM YOUR JOBBER.

STUBER & KUCK, - Peoria, Ill.

PATTERNS

UP TO DATE
Wood and Metal for Stoves, Ranges and Furnaces to order.
W. L. Mersfelder,
400 East Pearl, CINCINNATI, O.

CLEVELAND, Ohio, July 8th, 1901.
TO THE STOVE TRADE:
We believe there is a chance for the consolidation of all, or nearly all, the stove foundries of this country into a gigantic trust.
This concern has not been approached and will not be a part of the scheme.
We shall continue, however, to make patterns for anyone having the price. Do you handle a hundred Oak stoves or steel ranges in a year? If so, it will pay you to own your own patterns—get castings from your local foundry, and quadruple your profits.
All correspondence confidential.
Yours respectfully,
THE GOBEILLE PATTERN CO.,
CLEVELAND, OHIO.

THE GEO. W. COPE
STOVE PATTERN WORKS,
Randolph and Atwater Sts.
DETROIT, MICH.

Experience. Correctness.
Acme Pattern Works
STOVE and HEATER
Patterns
AKRON, OHIO.
Promptness. Satisfaction.

John B. Ehrlich
Special Stove & Furnace **PATTERNS**
Perfect Work. Right Prices.
Indianapolis, Ind.

Advertising is the root of all money.

Buckeye Decorative Home Paints are just what their name signifies—a paint designed for household use, for repainting old chairs, the lawn settee, the baby's wagon or sled, the interior of a room, or any place where a quick-drying, glossy surface is required. They are put up in convenient shape for both dealer and consumer.

Buckeye Paint & Varnish Co., Toledo, O.

DIAMOND VISE AND DRILLING ATTACHMENT

Vise Weighs 38 pounds.

NOTICE: Face of jaw is **steel** checked and hardened. Any vise to be satisfactory must have the face of the jaw covered with hardened steel.

MANUFACTURED BY

The Adams Company, DUBUQUE, IOWA.

SPERRY'S CALDRONS....

Full measure, guaranteed perfect, original patterns, with metal distributed where it is needed. Many Caldrons are made from our castings as patterns. They are inferior to original, as they have light bottoms and heavy sides and hold less.

D. R. SPERRY & CO.,
HOLLOW-WARE FOUNDERS,
BATAVIA, ILL.

TWELVE SIZES ALWAYS IN STOCK.

Standard Chain Company.
Chain of all Kinds.
Pittsburgh, Pa.

Artificial Light Revolutionized!

Merkel's Simplicity Incandescent Vapor Light.
An absolutely safe light.

Highly polished brass with gold finished ornament. **WALL LAMPS** Absolutely cheaper than gas or electricity.

THIS lamp consumes about one pint of gasoline in six to eight hours, and with the improved mantle produces a soft, steady and very brilliant white light, from 80 to 100 candle power. The Merkel Simplicity Light will not smoke or discolor ceilings.

Send for catalogue. Manufactured and patented by

H. MERKEL,
513-515 Elm Street, ST. LOUIS.

A Special Hardware Wagon.

Low Down.
Short Turn.
High Wheels.
Saves the Heavy Lifting.
Makes Quick Delivery.
For Prices, Terms, &c., Address,

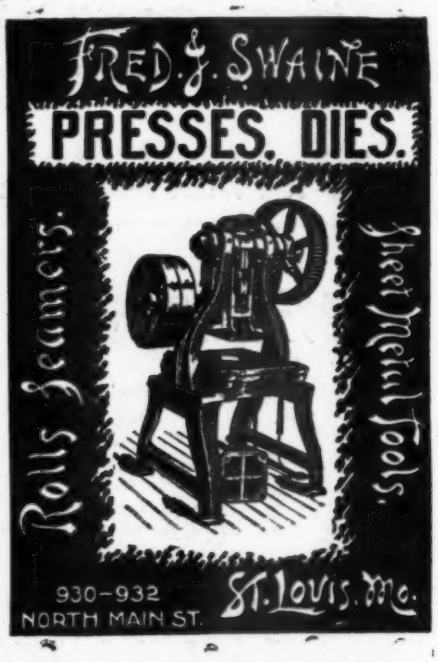
SHIPMAN, BRADT & CO., 305 North 3d St., DE KALB, ILLS

The World's Sanitary Dustless Floor Brush.

A "Sweeping" Change.

No more half-sweepings—no more microbes—no more dust. This brush, which can be used on any floor, is made with **one row of special fibre which readily absorbs kerosene oil which is carried in a reservoir in the top of the brush.** This keeps the brush constantly moist when in use.
Write and secure the agency.

Milwaukee Dustless Brush Co.,
123 and 125 Sycamore St.,
Milwaukee, Wis.



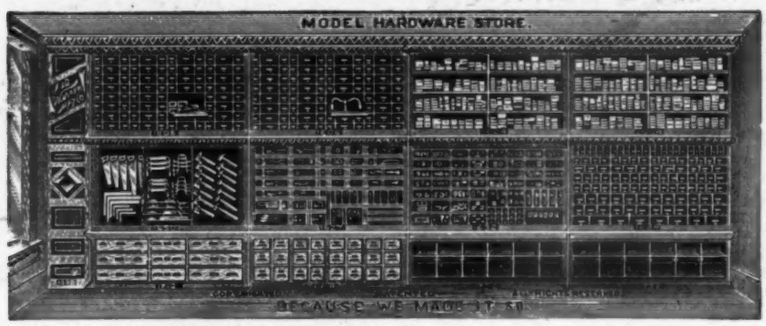
A Fire Pot's a Fire Pot for a' That!

No. 5 Fire Pot. $4.50 net.
Our catalog is free.

Still, some makes must be better than others. They cannot all be the best. We offer you the result of fifteen years' careful study and determination to make the best. Our name on a Fire means your money back if it does not please. Jobbers sell them everywhere at factory price.

Clayton & Lambert Mfg. Co.
DETROIT, MICH.

Make Your Stock Sell Itself—Write and ask how.



EXPERT DESIGNERS OF HARDWARE SHELVING.
J. D. WARREN MFG. CO. - - Chicago.
OFFICES: Dept. D, Rooms 502-503 Masonic Temple.

English Pots

Made in 1, 2, 3, 4, 6 and 8 gallon sizes, weighing 5, 9, 13, 14, 23 and 25 pounds, respectively.

We have the largest and best equipped factory in the south for the manufacture of Sad Irons, Country and Stove Hollow Ware. Ground and Unground. Sugar Kettles, English Pots, Cast Iron Shoe Lasts and Stands, Kitchen and Corner Sinks, Grates, &c.

Blacklock Foundry, South Pittsburg, Tenn.

It is made of Steel.

White Tile Top.

Tin or Brass Scoop.

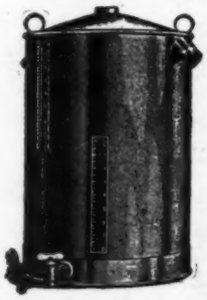
Brass Dial.

IMPROVED
YOUNG AMERICA SCALE.
BEST IN THE WORLD.

A most beautiful and attractive scale for all purposes. Beautifully enameled, ornamented and striped. Weighs 20 pounds by ounces. Occupies but little space. Is light and easily moved. It can be regulated by turning the brass screw on top. It is always ready and easily understood. It is a convenient scale to use and has no weights that may be lost. You can look this one in the face to prove its accuracy without looking for weights. Every scale examined before leaving the factory and warranted correct.

MANUFACTURED BY
AMERICAN CUTLERY CO., CHICAGO, ILL.

The Jersey Cream Separator



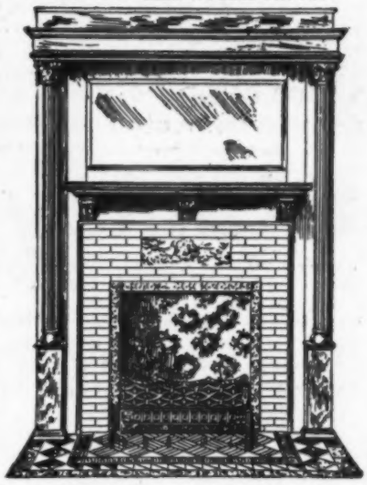
Separates cream from milk in less than one hour. The most simple, practical and reliable separator on the market. A sure seller. Sold to dealers only. Write for prices and circular to

—— THE ——
Galesburg Cornice Wks.,
GALESBURG, ILL.

Charles Hahn, Red Lodge, Mon., writes: "Please discontinue ad of 'tools wanted.' Much obliged. Had a dozen offers."

WOOD MANTELS.

FREE NEW CATALOG. Shall We Send You One?



Ironton Wood Mantel Co.,
Manufacturers for the Trade,
IRONTON, OHIO.

Tinners' Machinery & Supply Co.

20 Cliff Street, NEW YORK.

DIES OF ALL KINDS.

POWER, FOOT AND DROP **PRESSES**

Squaring and Circle Shears, Special Machinery, Second Hand Machinery.

SHARPEN YOUR TOOLS BY USING THE CORUNDUM SHARPENER AND INCREASE YOUR KNOWLEDGE OF TOOLS BY USING THE **GREEN BOOK** OF HARDWARE SPECIALTIES. ASK YOUR DEALER FOR THESE GOODS.

Utica Drop Forge & Tool Co.

Smith & HemenwayCo., 296 Broadway, N. Y. Thomson Bros. & Co.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS **Sold by All Hardware Dealers**

NEW BRITAIN, CONN.

THE "DISSTON SAW" WILL DO MORE WORK WITH LESS EXERTION AND HOLD ITS CUTTING EDGE LONGER THAN ANY OTHER BRAND OF SAW.

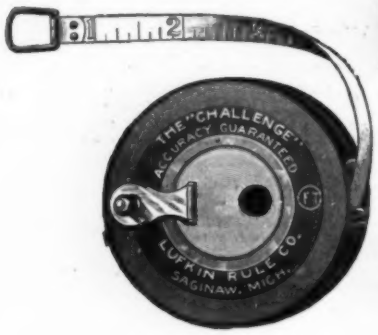
Fully Warranted as to Material and Manufacture.

Henry Disston & Sons, Inc.,

Keystone Saw Tool Steel & File Works.

Philadelphia, Penna.

For Additional Information Send a Postal For Our Pamphlet "Practical Hints To Mechanics."



Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

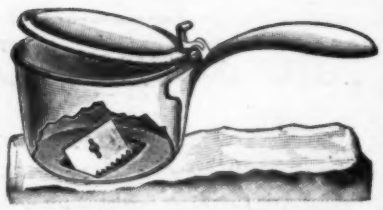
SACINAW, MICH.

"Enterprise" Ice Shredders

TINNED

FOR SHAVING ICE COARSE OR FINE

Invaluable when Icing Fruits, Drinks, Oysters and Clams on half shell, Celery, Radishes, Sliced Tomatoes, Tea, etc.



No. 33. Tinned $6.00 per doz.
No. 34. Nickeled 15.00 " "

At all Hardware, House Furnishing and Department Stores

No. 23. Tinned $1.25 per doz.

The Enterprise Manufacturing Co. of Pa.

Philadelphia, Pa., U. S. A.

OMAHA

is the center of a spider's web of railroads radiating all over the great west. Its splendid shipping facilities enable us to give the western dealer a prompt service that is utterly beyond the power of less favorably situated jobbers. The enormous stock of goods we carry makes ours the western hardware depot *par excellence.* Try us and find out if we don't give better service, better prices, better variety than your present hardware jobber. Send us your name and we will be pleased to put you on our list for trade literature.

Lee-Glass-Andreesen Hardware Co.,

Omaha, Neb.

Shooters are Smart.

They appreciate Peters' Cartridges and Loaded Shells and the Up-to-date dealer will sell them.

In all departments of shooting this ammunition has excelled.

The Peters Cartridge Co

Cincinnati and New York.

Hibbard, Spencer, Bartlett & Co.
Chicago.

Lackawanna Railroad

The Scenic Line TO New York City

Palatial Solid Vestibuled Trains
Superb Dining Cars
(Meals a la Carte)
Observation Cars Latest Pullmans
Elegant Day Coaches

3 THROUGH TRAINS DAILY from CHICAGO 3

Leaving Chicago	Arriving New York
10.35 a. m.	3.35 p. m. next day.
2.30 p. m.	7.30 p. m. next day.
10.30 p. m.	7.10 a. m. 2d day.

Rates $18.00 First Class, $16.00 Second Class

CITY TICKET OFFICE: 103 Adams Street
GEO. A. CULLEN, Gen'l West'n Pass. Agt.
CHICAGO

"Nothing except the mint can make money without advertising."—Gladstone.

DECISION OF THE

United States Circuit Court

SUSTAINING

Lalance & Grosjean Mfg. Cos.'s Label.

This label was originated and is used by us to distinguish our Absolutely Pure AGATE NICKEL-STEEL WARE from other goods containing either Arsenic, Lead or Antimony in the enamel coating.

The Court, limiting its decision to the use of the label only, rules as follows, under date of April 15, 1901: "Complainants may take a preliminary injunction against the use of the labels, Exhibit G (of the **National Enameling and Stamping Co.**) or of any similar labels, which, by the collocation of size, colors, shape, spacing and lettering may present as close a resemblance to complainants' label Exhibit F (**see copy of label adjoining**) as do the said labels, Exhibit G (on Granite Ware)."

NOTICE TO THE TRADE.

The trade is hereby notified that any sales of the so-called "Granite Iron or Steel Ware" under labels like our rectangular labels referred to in above decision is a direct infringement of our rights as established by the above adjudication and entitles us to claim damages.

Notwithstanding reports to the contrary, **we are NOT members of any "Trust" or "Association,"** nor have we entered into any "Gentlemen's Agreement" regarding prices on Tinned, Galvanized, Japanned or Enameled Wares, or any other goods we manufacture.

Lalance & Grosjean Mfg. Co.

CHICAGO. NEW YORK. BOSTON.

This is a copy of the **LABEL**, which is printed on **BLUE PAPER**, and pasted on each piece of **GENUINE AGATE NICKEL-STEEL WARE** as a guarantee of **Absolute Purity.**

Analysis No. 72,339. NEW YORK, Dec. 7, 1896.
We have made a careful examination of a sample of "Agate Nickel Steel Ware" received from The Lalance & Grosjean Mfg. Co., Nov. 30, 1896.
The enamel coating is homogeneous, of extra thickness, and great purity.
It is *entirely free from arsenic, lead* and *antimony*—metals so often found in enameled goods.
Very respectfully,
STILLWELL & GLADDING,
Chemists to the New York Produce Exchange.

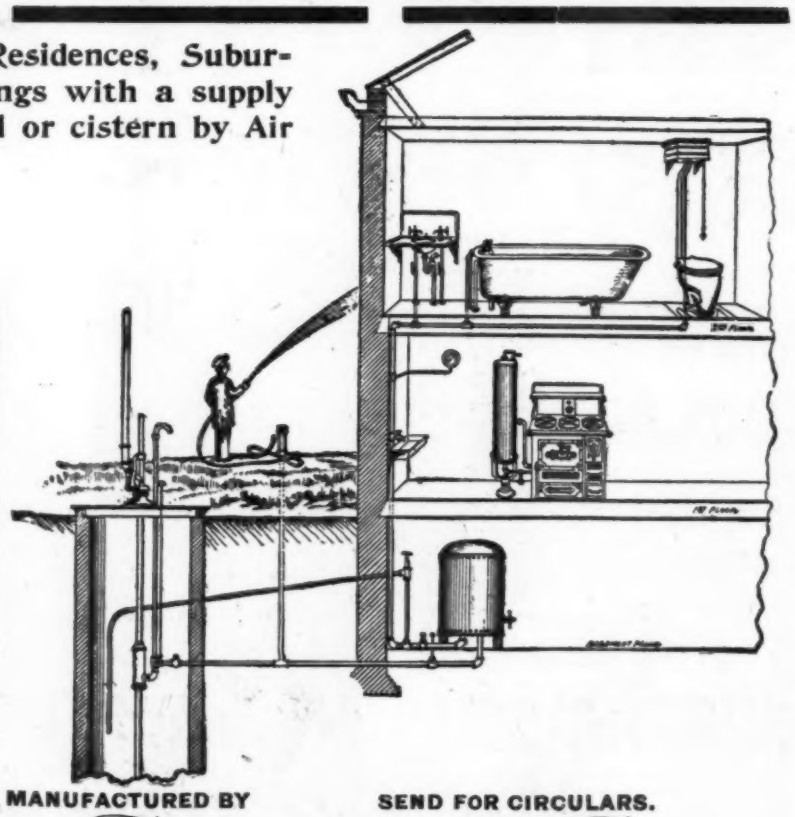
Pierre de P. Ricketts, E.M., Ph.D. John H. Banks, E.M., Ph.D.
Analysis No. 14,180. NEW YORK, May 5, 1897.
LALANCE & GROSJEAN MFG. CO.
GENTLEMEN:—As requested by you, we purchased in the open market a sample of "Agate Nickel Steel Ware" and have made a careful chemical analysis of the enamel covering of the same.
We find this enamel is *absolutely pure* and *free from Arsenic, Antimony, Lead* and *other substances injurious to health.* We can therefore recommend it for all culinary and drinking purposes. Respectfully yours,
RICKETTS & BANKS,
Chemists to the N. Y. Metal Exchange.

Guaranteed Double Coated and Absolutely Pure

Copyrighted.

Horigan Water Works

A system of furnishing Residences, Suburban Homes and other buildings with a supply of water from your own well or cistern by Air Compression.



REDUCES INSURANCE RATES.

Office of W. H. Horrum, Contractor and Builder and Manufacturer of Brick.
AUBURN, NEB., March 20, 1897.
MESSRS. HORIGAN SUPPLY CO., St. Joseph, Mo.
Gentlemen—Your letter of inquiry asking if you may use my name for reference regarding your Water Works, would say that I can cheerfully endorse it. Myself and wife think it is one of the best house appliances of the present day. We have plenty of water for bath tub, basin and water closet; in fact, for any use that may be wanted. We are exceedingly well pleased with its operation. We are, as you are probably aware, using a hand pump which requires about fifteen minutes pumping, say twice a week. We would dislike very much to return to the old method of carrying water, to say nothing of the fact that we would have to discontinue the use of our plumbing fixtures. I endorse it without reserve.
Respectfully yours,
W. H. HORRUM.

CAN BE EASILY INSTALLED.

WRITE FOR PRICES. MANUFACTURED BY SEND FOR CIRCULARS.

Horigan Supply Co.,

ST. JOSEPH, MO.

The Real Rogers Not in The Trust.

LOOK FOR THE INITIAL "TRADE MARKS"

Trade-Mark: **S C ROGERS C.**

Trade-Mark: **S C ROGERS BROS.**

To distinguish our goods from other Rogers, we use our initials in monogram as our trade marks. Goods bearing these trade marks are guaranteed to strip as much silver as any Rogers brand on the market.

New Patterns of Superior Finish and Beautiful Designs.

The Simeon L. & George H. Rogers Co.,

Manufacturers of SILVERWARE.

P. O. Box 1205, HARTFORD, CONN.

FACTORIES: Hartford, Conn., Wallingford, Conn.

BARGAINS

Our business consists in the purchase of **Stocks of General Merchandise at Sheriffs', Receivers' and various other forced sales.**

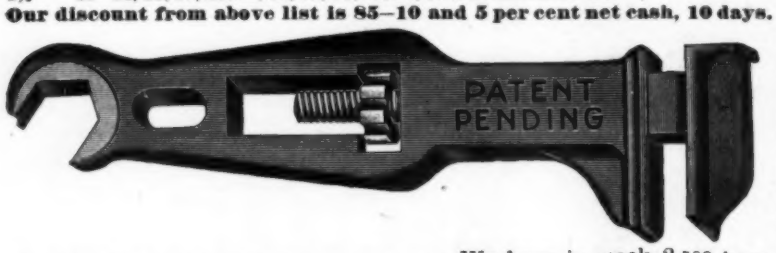
Our purchase of this brand new Galvanized Steel Wire Netting, is probably the largest ever made by any one individual concern. **Over twenty car loads** are already in our ware houses and more coming.

THIS PURCHASE REPRESENT GOODS OF STANDARD MAKE ONLY.

Put UP In Bales 150 Feet Long.

Mesh In.	No. of Wire	Width in Stock, Inches.	List Price Per Sq. Ft.
3	20	6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84	2½c
2	19	6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96	2½c
2	18	6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84	3¼c
2	17	12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72	4½c
2	16	6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78	5½c
2	15	12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 84	7¼c
2	14	12, 18, 24, 30, 36, 42, 48, 54, 60, 72, 84	9½c
1½	20	12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72	8c
1½	19	12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84	3½c
1½	18	12, 18, 24, 30, 36, 42, 48, 60, 72, 78	4½c
1½	17	12, 18, 24, 30, 36, 42, 48, 60, 66, 72	7¼c
1½	16	12, 18, 24, 30, 36, 42, 48, 54, 60, 72	8¾c
1	20	6, 12, 18, 24, 30, 36, 48, 54, 60, 66, 72, 78, 84, 96	5½c
1	19	12, 18, 24, 30, 36, 42, 48, 60, 72, 84, 96	6½c
1	18	12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78	7¾c

Our discount from above list is 85—10 and 5 per cent net cash, 10 days. F. O. B. Chicago, subject to prompt acceptance.



A Combination Monkey Wrench

We bought 5,000 of them at manufacturers' sale. They are made of all malleable iron; length, 9 in. The cut speaks for itself. It is made of 3 pieces. Has a hammer head. **Per dozen net cash, 90c.**

A PURCHASE OF WIRE NAILS.

We have in stock 2,500 kegs of new wire nails. They are miscellaneous sizes only—that is, instead of being labeled 3d, 4d, etc., they are marked by length and number of wire, as shown in this list:

Wire Brads.

Item No.	Length, inches.	Wire Gauge.	Quan. lbs.	Item No.	Length, inches.	Wire Gauge.	Quan. lbs.
105	4	12	400	113	3¾	11½	200
106	1	3-16	100	114	1¾	12	100
107	4½	6	57	115	⅜	13	100
108	¾	9	100	116	3½	14	400
109	3¾	9	100	117	⅝	15	143
110	2¾	10	100	118	¾	15	33
111	4½	10	100	119	1⅛	19	5
112	2¾	11	100	120	1⅛	14	107

Smooth C. S. Checked Heads.

Item No.	Length, Inches.	Wire Gauge.	Quan. lbs.	Item No.	Length, Inches.	Wire Gauge.	Quan. lbs.
121	1½	3	12	125	2	16	11
122	3	6	77	126	1¼	17	15
123	1½	9	141	127	2	6	200
124	⅜	14	100				

Wire Nails. No Heads.

Item No.	Length, inches.	Wire Gauge.	Quan. lbs.	Item No.	Length, inches.	Wire Gauge.	Quan. lbs.
128	2	10	2250	129	2½	8	1220

Oval Head Wire Nails. Smooth.

Item No.	Len. In.	Wire Gauge.	Quan. lbs.	Item No.	Len. In.	Wire Gauge.	Quan. lbs.
139	1¾	5	200	153	1¾	10	100
140	4	5	5400	154	2	9	100
141	1¼	6	100	155	2½	8	800
142	3	6	100	156	2½	0	100
143	2	8	300	157	4	6	400
144	2¼	8	1000	158	4	5	175
145	1½	9	415	159	5	5	100
146	2	11¼	50	160	5	4	1200
147	1½	10	400	161	6	4	100
148	1½	12	300	162	2	8½	400
149	2¼	12	100	163	2	9½	100
150	⅞	17	200	164	2	11½	100
151	¾	10	200	165	6	3	792
152	1¼	9	100	166	7	1	100

Wire Spikes.

Item No.	Length, Inches.	Quan. lbs.	Item No.	Length, Inches.	Quan. lbs.
130	10	6	135	3	900
131	3¼	142	136	8	100
132	7	146	137	5¼	56
133	4	280	138	6	65
134	4½	600			

Car Nails.

Item No.	Len. In.	Wire Gauge.	Quan. lbs.	Item No.	Len. In.	Wire Gauge.	Quan. lbs.
166½	1¼	7	200	175	1⅞	11	4646
167	2	10	100	176	2½	6	4200
168	2	9	6000	177	2	6	100
169	2	11	84	178	1½	10	1540
170	2	5	1400	179	1½	8	2542
171	1¼	10	200	180	1½	9	71
172	3	12	100	181	1¾	9	33
173	3¼	6	300	182	2	7	16
174	3	10	100				

Slating Wire Nails.

Item No.	Len. In.	Wire Gauge.	Quan. lbs.	Item No.	Len. In.	Wire Gauge.	Quan. lbs.
183	1¼	9	5114	185	1	10	100
184	⅞	10	200	186	1½	10	100

Hinge Wire Nails.

Item No.	Len. In.	Wire Gauge.	Quan. lbs.	Item No.	Len. In.	Wire Gauge.	Quan. lbs.
187	1¼	⅜	322	191	3½	00	200
188	2	5	100	192	4	0	80
189	3½	4	100	193	5	5/16	287
190	3½	1	100				

Cone Head Wire Nails.

Item	Len. In.	Wire Gauge.	Quan. lbs.	Item No.	Len. In.	Wire Gauge.	Quan. lbs.
	2½	5	100	196	2⅝	8	100
No.	1½	9	400	197	8		600

OUR NET CASH PRICE PER 100 LBS., ANY SIZE $2.05

This list represents about one-tenth of entire stock. Write for complete list.

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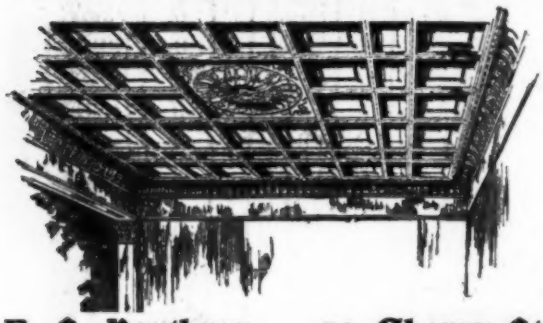

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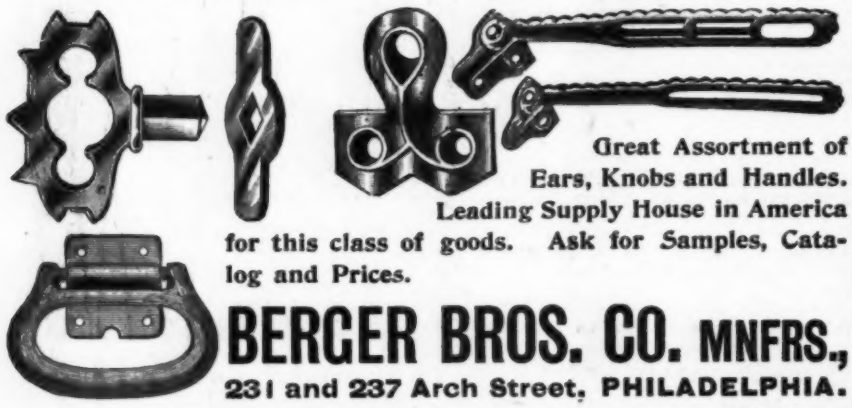

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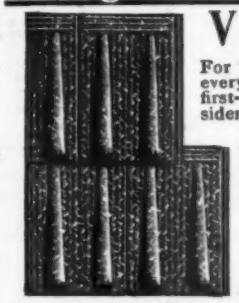

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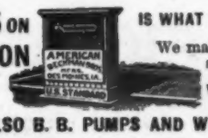

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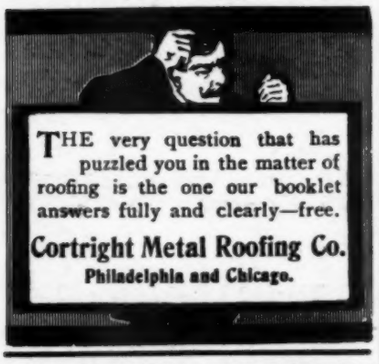

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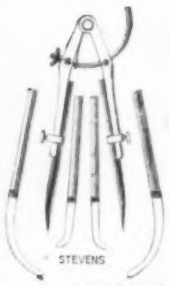

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